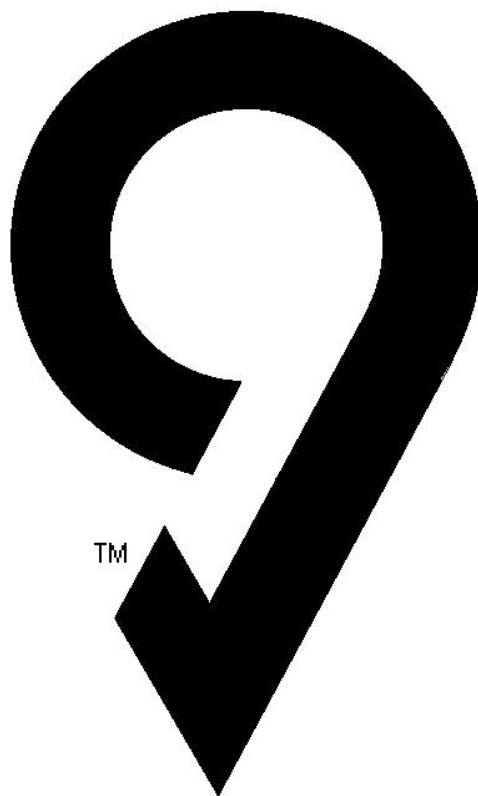


PD 9002



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PD 9002 : EXPLANATORY NOTES

1 Notes on the use of PD 9002

You are strongly recommended to read all the Explanatory Notes contained in the preliminary pages of this document.

1.1 Issue of PD 9002

PD9002 was historically issued twice per year. However, it was felt that it was unreasonable to charge for the register of approvals in an environment whereby:

- a) most new / modified component approvals are under the IECQ system
- b) most changes to PD 9002 are a reduction in the number of approved components

In its present format as a free download (pdf) PD 9002 will be reviewed regularly. If changes have taken place an updated copy will be placed on the website. To indicate this the version number will be incremented e.g. PD 9002 : 2017/2 indicates the second issue of PD 9002 in year 201X. This document can be found at www.bsigroup.com.

1.2 Search Guide (See also 1.4)

If a detail specification is known to be suitable for a particular purpose, reference should be made to the appropriate entry in the numerical listing of Part 2, Section 1.

If the product code of a suitable device is known, the specification number(s) applicable to that device may be ascertained by reference to the numeric/alphabetic cross-index in Part 2, Section 3.

Please note:

Part 2, Section 3 has been retained to assist in cases of obsolescence. It has therefore not been updated but "sealed" as last published in hard copy format i.e. PD 9002: 1/1999.

If it is known which product type is required, but neither specification number nor product code is known, reference should be made to the contents list to Part 2, Section 1.

1.3 Entries in Part 2, Section 1

Indicate the approved manufacturer by quoting the appropriate three-character manufacturer code. An index to these manufacturer codes is included in Part 1, Section 1.

1.4 Assessment levels and application categories

For full details of assessment levels or application categories, reference should be made to the appropriate detail specification.

1.4.1 Assessment levels under BS 9000

Detail specification assessment levels are generally as follows

Basic	=	Basic Assessment : the minimum level of assessment for which quality can be assured within the requirements of the system
Basic+	=	Basic Assessment with additional tests or more severe limits
CV	=	Devices formerly approved under the CV System specifications but latterly brought into the BS9000 scheme as BS9300 CXXX devices. Corresponds approximately with Full Assessment +
Full	=	Full Assessment : a degree of quality assessment that is higher than basic assessment level. The tests for full assessment level are prescribed in the relevant blank detail specification.
Full+	=	Full Assessment with additional tests or more severe limits.

1.4.2 Application categories (screening levels) under BS9000

Application categories S1, S2, S3 and S4 apply to integrated circuits intended for use under relatively severe environmental conditions as described below.

- Application category S1
For integrated circuits where reliability is imperative, maintenance is impossible or very difficult, or down-time must be minimal, e.g. space equipment, critical military applications, high revenue-earning equipment used in an adverse environment (approximately equivalent to MIL-M-38510 class S).
- Application category S2
For integrated circuits where reliability is important, maintenance is difficult or down-time must be low, e.g. aircraft equipment, military applications, mobile communications equipment (approximately equivalent to MIL-M-38510 class B).
- Application category S3
For integrated circuits having similar environment requirements to those for application category S2, but where electrical assurance can be relaxed.
- Application category S4
For integrated circuits having similar requirements to those for application category S2 but where environmental performance is not assessed.

Application categories S11 and S12 are primarily intended for use where high reliability requirements are combined with an extended life in a more benign environment than is associated with categories S1, S2 and S3. The environment may be defined as protected, ground and static where ambient temperatures of 55°C and relative humidities of 70% are rarely exceeded.

- Application category S11
Where reliability must be excellent and down-time must be minimal for a required life of up to 40 years under the above environmental conditions in high revenue earning equipment, e.g. telecommunications equipment.
- Application category S12
The criteria are similar to those for application category S11 but reliability and down-time requirements are less critical.

1.5 Contents of PD9002 (see also 1.2)

PART 1 of PD9002 contains lists of all firms approved under the BS9000 system.

Section 1 lists UK manufacturers approved under the BS9000 system and the scope of their approval. A separate index lists manufacturers and the distributors they have authorized to hold stocks of their approved products. Manufacturers approved under the IECQ system may be viewed via the IECQ website <http://www.iecq.org/>

Sections 2, 3 and 4 respectively list the names and addresses of approved distributors, test laboratories and assessors of add-on components.

PART 2 of PD9002 contains a list of all products approved under the BS9000 system.

Section 1 lists all specifications against which components have been qualified. If a detail specification is not included, it may as yet be unpublished, or it may have been published without the subsequent issue of qualification approvals to the specification. Alternatively, it is possible that all qualification approvals to that specification have been withdrawn or superseded by qualification approvals to a closely similar replacement document.

Little technical information on qualified components is given in this document but much more detailed information is available from the approved manufacturers. For complete information, the relevant detail specifications should always be consulted.

The date given in the Qualification Approval column is the date of first approval or (if there have been subsequent changes) the date of the most recent significant change in terms of the original approval.

The information under the column headed 'Scope of Approval' in Part 2, Section 1 is intended to supplement the other information given on the approved component ranges. The information given here is of two main kinds :

- where the range of components approved is less than that covered by the detail specification or is not defined in the specification, the actual range approved is given

- where notification has been received of an intention to withdraw an approval, this fact is noted here with an expected date of withdrawal if known.

Enquiries concerning the scope of approval should be referred to BSI.

Section 2 contains a list of all approvals under the relevant BS9000 numbers followed by abstracts of the capability manual for each approved manufacturer.

Section 3 contains an index of product codes and component types with related specification numbers (*but see "Please note" under 1.2*).

Section 4 contains a BS9000/CECC specification equivalent list.

Note:

This has been retained to assist in cases of obsolescence. It has therefore not been updated but "sealed" as last published in hard copy format i.e. PD 9002: 1/1999.

PART 3 of PD9002 contains a list of all services approved under the BS9000 system.

Section 1 contains abstracts of facilities of the Test Laboratories listed in Part 1, Section 3. Enquiries concerning the contents of this publication should be addressed to:

BSI
Kitemark Court
Davy Avenue, Knowlhill
Milton Keynes
MK5 8PP
Telephone: 0845 080 9000
Contact: Ms Cherrisse Craig, 07786 197691
email: Cherrisse.craig@bsigroup.com

1.6 Withdrawal of approval

This document records all components for which approval exists at the current version number. In accordance with the provisions of BS9000 : 1989 Part 5 Clause 3.9 and Part 6 Clause 7.2, manufacturers are generally required to give six months' notice of intention to cease production and twelve months' notice of intention to cease supply of components having qualification approval or capability approval. Under some circumstances, for example on closure of a factory when supply is no longer possible, approvals may be withdrawn with little or no notice.

2 Supply of Specifications

2.1 Basic Specifications

These are basic requirements applicable to all electronic components, for example BS6001 (Sampling Plans) or general requirements for components with common characteristics, for example series of preferred values.

2.2 Generic Specifications

These give general requirements for a family of components, including terms, definitions, symbols, test methods and sequences, standard values for characteristics and inspection information.

2.3 Sectional Specifications

These give the requirements for a single sub-family of electronic components covered by a higher order generic specification.

2.4 Blank Detail Specifications and Rules Documents

These are derived from the requirements of higher order specifications for a particular component range and are necessary for the preparation of Detail Specifications. They are published as separate BS9000 specifications.

Note : *Basic Specifications, Generic Specifications, Sectional Specifications, Blank Detail Specifications and Rules Documents may be obtained from Sales and Customer Services, British Standards Institution, 389 Chiswick High Road, LONDON, W4 4AL Telephone: +44 (0)20 8996 9001 Fax: +44 (0)20 8996 7001 or email: orders@bsigroup.com They are also available to subscribers through "Standards on Line" <http://shop.bsigroup.com/>*

2.5 Detail Specifications

Detail specifications numbered similarly to BS9xxx Fxxxx are available from the manufacturer only. Detail specifications numbered similarly to BS9xxx Nxxxx may be ordered from BSI at the address given above. Many copies of BS9000, CECC and IECQ documents including detail specifications are available through Technical Indexes Limited.

For further information contact :

Technical Indexes Limited
Willoughby Road
Bracknell
Berkshire
RG12 8DW
Telephone: 01344 426311
Email: customer.support@ihs.com

3 Governing Documents in the BS9000 System

These are as follows :

BS9000 : 1989: Parts 1 and 5-7	General requirements for a system for electronic components of assessed quality (declared obsolescent in June 1993).
PD9002	Register of firms, products and services approved under the BS9000 system.

The BSI Catalogue, published annually, contains a full list of all published BSI Standards and specifications, all of which are obtainable from BSI Sales and Customer Services at the address shown in section 4.4 of these Explanatory Notes.

4 Principal Technical Specifications

4.1 Generic Technical Specifications BS 9000

BS 9030	Magnetrons (W)
BS 9040	Gas-filled microwave switching tubes (W)
BS 9050	Cathode ray tubes (W)
BS 9070	Fixed capacitors (W), Part 3 (C)
BS 9090	Variable capacitors (W)
BS 9100	Custom-built capacitors and capacitor modules (CA) (ob)
BS 9120	Radio interference suppression filters (QA) (C)
BS 9125	Radio interference suppression filters (CA) (C) (W)
BS 9130	Potentiometers (W)
BS 9150	Electrical relays (W)
BS 9210	RF connectors (ob)
BS 9215	Custom built RF connector/cable assemblies (CA) (W)
BS 9220	Rigid waveguide tubing (C)
BS 9300	Semiconductor devices (ob) (<i>superseded</i>)
BS 9400	Integrated circuits (W)
BS 9450	Custom built integrated circuits (CA) (W)
BS 9520	Electrical connectors for frequencies below 3MHz (W)
BS 9521	Removable contacts (W)
BS 9561	Lever-operated switches (W)
BS 9562	Microswitches (W)
BS 9563	Rotary (manual) switches (W)
BS 9564	Push-button switches (W)
BS 9565	Printed circuit board mounting programming switches (W)
BS 9600	Piezo-electric crystal filters (W)
BS 9610	Quartz crystal units (QA) (W)
BS 9618	Quartz crystal units (CA) (W) (S)
BS 9620	Quartz crystal oscillators (W)
BS 9720	Custom-built transformers and inductors (CA) (C)
BS 9750	Fixed R.F. inductors (W)
BS 9760	Printed wiring (W)

LEGEND

- (1) Being proposed for withdrawal
- (2) Due to be revised
- (3) To be proposed for obsolescence
- (ob) Obsolescent (meaning not recommended for future use in new systems and equipment)
- (C) Current
- (W) Withdrawn

4.2 Other relevant BS specifications

BS EN 60062	Marking codes for resistors and capacitors (C)
(IEC 60068)	Environmental testing (C)
BS 2045	Preferred numbers (W)
BS 2316	Radio frequency cables (W)
BS 2488	Schedule of preferred numbers (Res and Caps) (W)
BS 2856	Precise conversion of inch and metric sizes (C)
BS 3041	Radio frequency connectors Parts 1-2 (W)
BS3934	Dimensions of semiconductor devices (W)
BS 3939	Graphical symbols Sections 1-30 (W)
BS 4061	Dimensions of pot-cores made of ferromagnetic oxides and associated parts (W)
BS 4292	Method for specifying electroplated coatings of gold and gold alloy (W)
BS 4727	Glossary of terms for electrotechnical, power, telecommunications, electronics colour terms (W)
BS 5555	SI units and recommendations for multiples (W)
BS 5692	Measurement of the dimensions of a cylindrical electronic component having two axial terminations (W)
BS 5693	Preferred diameters of wire terminations for capacitors and resistors (W)
BS 5695	Maximum case dimensions for capacitors and resistors (W)
BS 6000	Guide to use of BS6001 (W)
BS 6001	Sampling procedures and tables for inspection by attributes (C)
BS 6002	Sampling procedures and tables for inspection by variables (W)
BS 6303	Space required by capacitors and resistors with uni-directional terminations (W)

4.3 Basic documents for the IECQ System

These are listed at and available as a free download from <http://www.iecq.org/>

5 Competent authority

The operation of the BS9000, and IECQ systems in the UK is under the control of BSI at the address given in Section 1.4 of these Explanatory Notes.

6 Ordering of Components

When ordering components listed in this document, it is essential that purchasers should comply in full with the requirements given under 'Ordering information' in the relevant detail specification.

7 UK SI Reporting Centre

Arrangements are provided through the Reporting Centre for feedback where corrective action or enhancement of the System is necessary.

Although all complaints related to electronic components should, in the first instance, be addressed to the relevant manufacturer either directly or via his distributor, the Reporting Centre affords users of the System the opportunity of involving the SI in the event of significant quality failures.

The SI will act as an independent investigator in cases where complaints have not been resolved between the user and the approved distributor and/or manufacturer. In such instances complaints should be forwarded to BSI at the address given in Section 1.4 of these Explanatory Notes.

8 PART 1 APPROVED FIRMS**8.1 PART 1, Section 1 Manufacturers****8.1.1 Index to Manufacturer's codes****CODE MANUFACTURER**

AVN	AVX Limited
BBS	Barnbrook Systems Ltd
E4G	Charcroft Electronics Limited
FNC	Harwin plc
TTA	Technograph Microcircuits Ltd
A7M	Ultra Electronics Limited Contract Electronics Manufacturing Services Microelectronics

8.1.2 Company name and address

Name of Manufacturer	Address	Approval No.,	Products covered
AVN AVX Limited	Hillman's Way Coleraine Londonderry BT52 2DA Tel: 02870344188 Mr David McClean mccleand@avxeur.com	1141/M	Fixed capacitors
BBS Barnbrook Systems Ltd	25 Fareham Park Road Fareham Hampshire PO15 6LD United Kingdom Tel: 01329 847722 Mr Vignesh Gunasekaran vic@barnbrook.co.uk	1367/M	Electrical Relays
E4G Charcroft Electronics Limited	Dol-y-coed Llanwrtyd Wells Powys LD5 4TH United Kingdom Tel: 01591 612227 Mr Phil Darwood phil.darwood@charcroft.com	1364/M	Fixed ceramic dielectric capacitors
FNC Harwin plc	Fitzherbert Road Farlington Portsmouth Hampshire PO6 1RT United Kingdom Tel: 02392 314542 Mr Mark Stevens mstevens@harwin.co.uk with sales office at:	1243/M	Sockets for tubes, valves and plug-in devices. Electrical connectors LF
TTA Technograph Microcircuits Ltd	Units 1-4, Railway Triangle Walton Road Portsmouth Hampshire PO6 1TN United Kingdom Tel: 02392 315860 Mrs Karen Mundy karen.mundy@technographmicro.com	1108/M	Integrated electronic circuits and micro-assemblies - Capability approval procedures
A7M Ultra Electronics Limited, Contract Electronics Manufacturing Services, Microelectronics Portchester	10 Murrills Estate East Street Portchester Hampshire PO16 9RD United Kingdom Tel: 02392 382222 Mr John Cooke John.cooke@ultra.co.uk	1327/M	Integrated electronic circuits and Micro-assemblies

9 PART 1, Section 2 Distributors

9.1 Company name and address

Name of Distributor	Address of bonded store	Approval number	Products covered
Charcroft Electronics Limited	Dol-y-Coed Llanwrtyd Wells Powys LD5 4TH United Kingdom Tel: 01591 612227 Mr Phil Darwood phil.darwood@charcroft.com	2111/S	Fixed Ceramic capacitors
Distributed Micro Technology Ltd	The Old Bakery 265 Yorktown Road, College Town, Sandhurst Berkshire GU47 0QA United Kingdom Tel: 01276 33391 Mr Peter Jones peterj@dmtl.co.uk	601079/S	Multilayer, custom built ceramic fixed capacitors Class 1B and 2C1.

10 PART 1, Section 3 Test Laboratories

10.1 Company name and address

NOTE: The facilities, limits and tolerances covered by the approvals should be ascertained from the test laboratory. Abstracts in Section 3, Part 1.

Name of Test Laboratory	Address	Approval Number
API Microelectronics Limited	Test House South Denes Great Yarmouth Norfolk NR30 3PX United Kingdom Tel: 01493 743121 Mr Mark Welband markwelband@cmac.com	3019/T
Environmental Test Services Limited	Unit 38 Suttons Business Park Suttons Park Avenue Reading Berkshire RG6 1AZ United Kingdom Tel: 0118 966 2724 Mr John Fennell john@etsonline.co.uk	3046/T

11 PART 2 PRODUCT APPROVALS

11.1 PART 2, Section 1 Qualified Products List

Note - Surface Mounted Devices

Many electronic component types are now packaged in such a way as to facilitate surface mounting techniques. Some of the component types listed in this document have been designed with this particular method of mounting in mind. However, unless the detail specification contains specific reference to test methods and performance criteria associated with this type of mounting, then component selection must be undertaken with the knowledge that the scope of approval may not be representative of an assessed and approved claim as far as surface mounting is concerned

11.2 List of Contents

BS 9000 Approved Components

Fixed and Variable Capacitors:	BS 9075 Fixed ceramic dielectric capacitors
Electromechanical Relays:	BS 9151 All-or-nothing electromechanical relays
Low-Frequency Connectors:	BS 9525 Multi-contact two part PCB connectors

11.3 Guide to availability of detail specifications in Part 2, section 1

Detail specifications numbered BS 9xxx Fxxxx and BS 9xxx Gxxxx are available from the manufacturer only.

Detail specifications numbered BS 9xxx Nxxxx and BS 9xxx Cxxxx are national detail specifications available from BSI Sales and Customer Services.

11.4 BS 9000 Approved Components

11.4.1 BS 9075 Fixed and Variable Capacitors

11.4.1.1 Fixed ceramic dielectric capacitors

Specification			Manuf Code		Approval Reference	Qualification Approval
BS9075 F0002	4	F	E4G	VK20BA, VK30BA, VK21BA, VK20BY, VK30BY, VK21BY	2725/F	2C1B: 12,000pF to 100,000pF at 50V 2C1B: 1,200pF to 100,000pF at 100V 2C1B: 10-1,000pF at 200V 2C1C: 12,000pF to 100,000,000pF at 50V 2C1C: 1,200pF to 100,000pF at 100V 2C1C: 10-10,000 at 200V 2C1D: 12,000pF to 100,000pF at 50V 2C1D: 1,200pF to 10,000pF at 100V 2C1D: 10-1,000pF at 200V 1BB: 1.0-1,500pF at 100V 1BC: 1.0-10,000 at 100V 1BD: 1.0-1,500pF at 100V
BS9075 N0023	2	F	E4G	VK20BA, VK30BA	0327/N	1BB: 1.0pF to 500pF at 100V 1BC: 1,800pF to 10,000pF at 100V
BS9075 N0024	2	F	E4G	VK20BY, VK30BY	0328/N	2C1B: 12,000pF to 100,000pF at 50V 2C1B: 1,200pF to 100,000pF at 100V 2C1B: 10pF to 1,000pF at 200V 2C1C: 12,000pF to 1,000,000pF at 50V 2C1C: 12,000pF to 100,000pF at 100V 2C1C: 1,200pF to 100,00pF at 200V

11.4.2 BS 9151 Electromechanical Relays

11.4.2.1 All-or-nothing electromechanical relays

BS9151 F0007	5	F	BBS	HF	2139/F	
BS9151 F0008	3	F	BBS	F	2140/F	
BS9151 F0026	3	F	BBS	HDS5, HF	1210/F	6V d.c., 12V d.c., 20V d.c., 24V d.c., 48V d.c.
BS9151 F0030	1	F	BBS	HDD4	1476/F	6V d.c., 12V d.c., 18V d.c., 24V d.c., 32V d.c. 48V d.c.

11.4.3 BS 9525 Low-frequency Connectors

11.4.3.1 Multi-contact two part PCB connectors

BS9525 F0033	1		FNC	Datamate M80	2538/F	Multi-contact two part printed board miniature connector 2.0 mm pitch with through board solder or rear insertable female crimp contacts.
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12 PART 2, Section 2 Capability Approval Abstracts

12.1 CONTENTS

BS 9100 Custom Built Capacitors

BS 9450 Capability Approved Integrated Circuits

12.2 BS 9100 Custom Built Capacitors

12.2.1 CA/196 (AVN) AVX Limited

Description of Approved Components:	Multilayer, custom built ceramic fixed capacitors. Class 2C1
Capacitance range:	0.12 μ F to 180 μ F (Type 2C1)
Range of Tolerance:	\pm 5% to \pm 20%
Range of Voltage ratings:	50V dc to 500V dc
Case types:	a) No encapsulation b) UV seal varnish c) Conformal coating, epoxy All with radial/multiple radial leads
Environmental category:	55/125/56
Manufacturers Component No's:	BR, CV, and CH series
Mechanical attributes:	Vibration frequency: 10 to 2000 Hz 0.75 mm or 10g Bump: Duration: 4000 bumps 40g

12.3 BS 9450 Capability Approved Integrated Circuits

12.3.1 CA/043 (TTA) Technograph Microcircuits Ltd

Manufacturer:	
Basic technology:	Thick film passive and discrete hybrid integrated circuits. Full assessment
<u>Construction</u>	
Resistors:	Platinum and ruthenium based, screen printed, laser trimmed.
Substrate:	Alumina 96%
Conductors:	Gold and Platinum gold - up to 5 layers. Gold up to 3 layers.
<u>Assembly:</u>	
Add-on component Types:	Bare active devices - diodes, transistors, integrated circuits. Passive devices - capacitors, thick or thin film resistors.
Method of attachment:	Conductive/insulating epoxy.
Method of interconnection:	Ultrasonic bonding - aluminium wedge and gold ball. External terminations by soldered pins, or via glass-to-metal seals.
Packages and Sealing:	1. Dual-in-line integral substrate package with epoxy sealed ceramic lid – up to 40 pins. 2. Dual-in-line metal package, electroless nickel or gold plated with welded lid – up to 40 leads.
<u>Resistors:</u>	
Range:	5 Ω to 5 M Ω
Tolerance:	$\pm 1 \Omega$, $\pm 0.25\%$ to $\pm 0.5\%$ depending on value.
Matching:	$\pm 0.1 \Omega$, 0.5%
Rating:	up to 200 mW/mm ² , 100 V/mm depending on material system.
TCR:	100 ppm/ $^{\circ}$ C
TCR Tracking:	25 ppm/ $^{\circ}$ C, prints from same screen.
Stability (% per 1000 hrs):	5 Ω to 100 Ω $\pm 5\%$ 100 Ω to 1k Ω $\pm 1\%$ 1k Ω to 1 M Ω $\pm 0.4\%$ 1 M Ω to 3.6 M Ω $\pm 0.4\%$ 3.6 M Ω to 5 M Ω $\pm 1\%$
Electrical performance:	To customer detail specification .
Customer participation in design:	Any level or stage by agreement.
<u>Package ratings:</u>	
Operating temperature range:	-55 $^{\circ}$ C to +125 $^{\circ}$ C
Storage temperature range:	-65 $^{\circ}$ C to +150 $^{\circ}$ C
Voltage:	200V max
Conductor current density:	Au: 2.5 A/mm
Substrate power:	PtAu: 0.33 A/mm 2W/625 mm ² max

NOTE: It may not be possible to achieve all limits of capability in combination. Such combinations are determined by the agreed customer detail specification for the components ordered.

CA/043 (continued)

<u>BS Reference</u>	<u>Test</u>	<u>Epoxy Sealed Ceramic Lid</u>	<u>Welded Lid Metal Package</u>
1.2.7.14	Rapid change of temperature	-55 °C to +125 °C, 5 cycles	-55 °C to +125 °C, 5 cycles
1.2.7.10	Acceleration	49,000 m/s ² Y1	49,000 m/s ² Y1
1.2.7.9	Vibration, sinusoidal	20-2,000 Hz, 98 m/s ²	20-2,000 Hz, 98 m/s ²
1.2.7.7	Shock	981 m/s ² , 6 ms	981 m/s ² , 6 ms
1.2.7.5	Damp, Heat steady state	56 days	56 days
1.2.7.16.2	Solderability	Pass	Pass
1.2.7.16.3	Solder heat	350 °C	350 °C
1.2.7.17.1, 1.2.7.17.3	Terminal robustness	0.5 kg	0.5 kg
1.2.7.15.2, 1.2.7.15.3	Fine and Gross leak	Pass	Pass
		5 x10 ⁻⁷ atm/cc/sec	5 x10 ⁻⁷ atm/cc/sec
		Pass	Pass

12.4 BS 9450 Capability Approved Integrated Circuits

**12.4.1 CA/199 (A7M) Ultra Electronics Limited Contract Electronics Manufacturing Services
Microelectronics Portchester**

Basic technology:	Thick film passive and hybrid integrated circuits.
<u>Construction</u>	Alumina Substrate.
Resistors:	Ruthenium based, screen printed, laser trimmed
Conductors:	Gold; 5 multilayer on dielectric, 1 on alumina. Palladium silver: 1 layer on dielectric and alumina.
Terminations:	By soldered leadouts, pins through glass seals.
<u>Add-on components</u>	
Types:	Diodes, transistors, integrated circuits, capacitors, resistors in discrete and chip form.
Method of attachment:	Silver conducting epoxy, solder.
Method of interconnection:	Gold and Aluminium wire bonding, solder.
Assessment Category:	Full.
Packages and Sealing:	Integral substrate/package maximum area 1522 mm ² Lidseal area 1032 mm ² Maximum number of leads 20 pin SIL, 40 pin DIL Welded hermetic package maximum area 1574 mm ² Maximum number of leads 40 DIL
<i>Boundaries of Capability:</i>	
Resistors:	
Range;	4.44 Ω to 4 MΩ
10Ω / sq decade. Less than 10 Ω	± 0.1 Ω
10 – 100Ω / sq decades. 10 – 100Ω	± 1.0%
100 Ω, 1 kΩ, 10 kΩ, 100 kΩ / sq decades. 100 Ω – 300 kΩ	± 0.5%
100 kΩ, 1MΩ / sq decades. 300 kΩ – 2 MΩ	± 1.0%
1 MΩ / sq decade. > 2 MΩ	± 5.0%
Matching tolerance 13 Ω – 130 KΩ	± 0.3%
TCR 10 Ω / sq decade	± 250 ppm/°C
TCR 100 Ω, 1 kΩ, 10 kΩ, 100 kΩ / sq decades	± 100 ppm/°C
TCR 1 MΩ / sq decade	± 250 ppm/°C
TCR tracking 130 Ω – 130 kΩ	± 50 ppm/°C
Stability	1% - 5%
Storage Temperature	-65 °C to +150 °C
Operating Range	-55 °C to +125 °C
Substrate Power	6.2 mW/mm ² @ +70 °C
Screening	Full, others by agreement with the customer.
Customer Participation in Design	Any level by agreement.

BS 9450	Test	Conditions	CQCs
1.2.7.5	Damp Heat; Steady State	56 days, 55 °C, 90% RH ceramic package	4,6,7
1.2.7.5	Damp Heat; Steady State	56 days, 85 °C, 85% RH metal package	3
1.2.7.9	Vibration	78 Hz – 2000 Hz, 20g	3,4,7
1.2.7.10	Acceleration	5000g Y1	3,4,7
1.2.7.14	Rapid Change of Temperature	10 cycles 150 °C – 65 °C	3,4,6,7
1.2.7.16.2	Solderability	235 °C, 2s	3,4,6,7
1.2.7.16.3	Resistance to soldering heat	350 °C, 3.5s	3,4,6,7
1.2.7.17	Terminal robustness	2 bends, 1 direction, 0.5 Kgm	6,7
1.2.7.19	Resistance to solvents	Isopropyl alcohol, distilled water. vigon cleaning solution	4
1.2.7.18	Flammability	10 s	7
1.2.7.15.2	Fine leak		3,4
1.2.7.15.3	Gross leak		3,4
1.2.7.7	Shock	14700 ms ⁻² , 0.5 ms half sine pulse	3,4
1.2.8	Endurance	2000 hours @ +125 °C	3,4,6,7

Note: It may not be possible to achieve all the individual limits of capability in combination.

13 PART 2, Section 3 Index to Product Codes**NOTE**

The product codes in this list are in strict numeric-alphabetic order. Thus, for example, 54HC109J occurs above 54HC10J and BZW91-62 occurs above BZW91-6V2. Any characters apart from the digits 0 to 9 and letters A to Z are ignored in ordering the entries in this table.

This section has been retained to assist in cases of obsolescence. It has therefore not been updated but “sealed” as last published in hard copy format i.e. PD 9002: 1/1999.

13.1 Product Codes

1420x	BS9574 F0002	508	BS9564 F0002	4002	BS9574 F0001
14301	BS9574 F0002	50FP/156	BS9525 F0049	4003	BS9574 F0001
14302	BS9574 F0002	50FP/PCA	BS9525 F0049	4004	BS9574 F0001
14303	BS9574 F0002	50FP/PCB	BS9525 F0049	4005	BS9574 F0001
14304	BS9574 F0002	50FP/PCD	BS9525 F0049	4006	BS9574 F0001
14305	BS9574 F0002	50FS/156	BS9525 F0049	4007	BS9574 F0001
14306	BS9574 F0002	50LS/156	BS9525 F0049	4008	BS9574 F0001
14307	BS9574 F0002	50P/156	BS9525 F0049	406	BS9564 F0002
14308	BS9574 F0002	50S/156	BS9525 F0049	408	BS9564 F0002
1430x	BS9574 F0002	50S/156/10	BS9525 F0049	40FP/156	BS9525 F0049
14C/95J20	BS9054 F0024	50S/156/L	BS9525 F0049	40FP/PCA	BS9525 F0049
15201	BS9574 F0002	50S/156/V	BS9525 F0049	40FP/PCB	BS9525 F0049
15202	BS9574 F0002	50S/156/VL	BS9525 F0049	40FP/PCD	BS9525 F0049
15203	BS9574 F0002	50S/PCA	BS9525 F0049	40FS/156	BS9525 F0049
15204	BS9574 F0002	50S/PCB	BS9525 F0049	40LS/156	BS9525 F0049
15205	BS9574 F0002	50S/PCD	BS9525 F0049	40P/156	BS9525 F0049
15206	BS9574 F0002	5101	BS9574 F0001	40S/156	BS9525 F0049
15207	BS9574 F0002	5102	BS9574 F0001	40S/156/10	BS9525 F0049
15208	BS9574 F0002	5103	BS9574 F0001	40S/156/L	BS9525 F0049
15209	BS9574 F0002	5104	BS9574 F0001	40S/156/V	BS9525 F0049
1520x	BS9574 F0002	5105	BS9574 F0001	40S/156/VL	BS9525 F0049
15210	BS9574 F0002	5106	BS9574 F0001	40S/PCA	BS9525 F0049
15211	BS9574 F0002	5107	BS9574 F0001	40S/PCB	BS9525 F0049
15301	BS9574 F0002	5108	BS9574 F0001	40S/PCD	BS9525 F0049
15302	BS9574 F0002	5109	BS9574 F0001	4101	BS9574 F0001
15303	BS9574 F0002	5110	BS9574 F0001	4102	BS9574 F0001
15304	BS9574 F0002	5111	BS9574 F0001	4103	BS9574 F0001
15305	BS9574 F0002	516	BS9564 F0002	4104	BS9574 F0001
15306	BS9574 F0002	518	BS9564 F0002	4105	BS9574 F0001
15307	BS9574 F0002	51 DIL	BS9153 F0004	4106	BS9574 F0001
15308	BS9574 F0002	5201	BS9574 F0002	4107	BS9574 F0001
15309	BS9574 F0002	5202	BS9574 F0002	4108	BS9574 F0001
1530x	BS9574 F0002	5203	BS9574 F0002	416	BS9564 F0002
15310	BS9574 F0002	5204	BS9574 F0002	418	BS9564 F0002
15311	BS9574 F0002	5205	BS9574 F0002	41A/111B5CB	BS9054 F0053
156/LP/B2	BS9525 F0050	5206	BS9574 F0002	41A/40 H4 BR	BS9054 F0051
16201	BS9574 F0002	5207	BS9574 F0002	41A/40 H4 VA	BS9054 F0052
16202	BS9574 F0002	5208	BS9574 F0002	41B/48H2SB	BS9054 F0070
16203	BS9574 F0002	5209	BS9574 F0002	41B/48H2SE	BS9054 F0069
16204	BS9574 F0002	520x	BS9574 F0002	41E/87HM	BS9054 F0056
16205	BS9574 F0002	5210	BS9574 F0002	4201	BS9574 F0002
16206	BS9574 F0002	5211	BS9574 F0002	4202	BS9574 F0002
16207	BS9574 F0002	5301	BS9574 F0002	4203	BS9574 F0002
16208	BS9574 F0002	5302	BS9574 F0002	4204	BS9574 F0002
1620x	BS9574 F0002	5303	BS9574 F0002	4205	BS9574 F0002
162GB series	BS9522 N0001	5304	BS9574 F0002	4206	BS9574 F0002
16301	BS9574 F0002	5305	BS9574 F0002	4207	BS9574 F0002
16302	BS9574 F0002	5306	BS9574 F0002	4208	BS9574 F0002
16303	BS9574 F0002	5307	BS9574 F0002	420x	BS9574 F0002
16304	BS9574 F0002	5308	BS9574 F0002	4301	BS9574 F0002
16305	BS9574 F0002	5309	BS9574 F0002	4302	BS9574 F0002
16306	BS9574 F0002	530x	BS9574 F0002	4303	BS9574 F0002
16307	BS9574 F0002	5310	BS9574 F0002	4304	BS9574 F0002
16308	BS9574 F0002	5311	BS9574 F0002	4305	BS9574 F0002
1630x	BS9574 F0002	550-2960 series	BS9751 N0001	4306	BS9574 F0002
17201	BS9574 F0002	550-3399 series	BS9751 F0002	4307	BS9574 F0002
17202	BS9574 F0002		BS9751 N0001	4308	BS9574 F0002
17203	BS9574 F0002	550-3640 series	BS9751 F0002	430x	BS9574 F0002
17204	BS9574 F0002		BS9751 N0001	437	BS9572 F0002
17205	BS9574 F0002	551	BS9572 F0002	438	BS9572 F0002
17206	BS9574 F0002	551-5180 series	BS9751 F0002	439	BS9572 F0002
17207	BS9574 F0002		BS9751 N0001	440	BS9572 F0002
17208	BS9574 F0002	552	BS9572 F0002	441	BS9572 F0002
17209	BS9574 F0002	553	BS9572 F0002	442	BS9572 F0002
1720x	BS9574 F0002	554A	BS9572 F0004	443	BS9572 F0002
17210	BS9574 F0002	555A	BS9572 F0004	444	BS9572 F0002
17211	BS9574 F0002	585	BS9572 F0002	445	BS9572 F0002
17301	BS9574 F0002	586	BS9572 F0002	446	BS9572 F0002
17302	BS9574 F0002	587	BS9572 F0002	454/22	BS9070 N0002
17303	BS9574 F0002	588	BS9572 F0002	454/23	BS9070 N0002
17304	BS9574 F0002	589	BS9572 F0002	454/273	BS9070 N0002
17305	BS9574 F0002	590	BS9572 F0002	454/274	BS9070 N0002
17306	BS9574 F0002	591	BS9572 F0002	454/275	BS9070 N0002
		592	BS9572 F0002	454/276	BS9070 N0002
		593	BS9572 F0002	454/31	BS9070 N0002

6305	BS9574 F0002	7xxx series	BS9574 F0001	9001	BS9574 F0001
6306	BS9574 F0002			9002	BS9574 F0001
6307	BS9574 F0002		8	9003	BS9574 F0001
6308	BS9574 F0002			9004	BS9574 F0001
630x	BS9574 F0002	8001	BS9574 F0001	9005	BS9574 F0001
6N134	BS9400 G0123	8002	BS9574 F0001	9006	BS9574 F0001
6N134/L2	BS9400 G0123	8003	BS9574 F0001	9007	BS9574 F0001
6N134/L3	BS9400 G0123	8004	BS9574 F0001	9008	BS9574 F0001
6N134/L4	BS9400 G0123	8005	BS9574 F0001	9009	BS9574 F0001
6N140A	BS9400 G0124	8006	BS9574 F0001	9010	BS9574 F0001
6N140A/L2	BS9400 G0124	8007	BS9574 F0001	9011	BS9574 F0001
6N140A/L3	BS9400 G0124	8008	BS9574 F0001	906	BS9564 F0002
6N140A/L4	BS9400 G0124	801 CX series	BS9525 F0027	908	BS9564 F0002
6xxx series	BS9574 F0001	801 series	BS9525 F0006	9101	BS9574 F0001
			BS9525 N0001	9102	BS9574 F0001
	7	806	BS9564 F0002	9103	BS9574 F0001
		807 series	BS9525 F0027	9104	BS9574 F0001
		808	BS9564 F0002	9105	BS9574 F0001
7001	BS9574 F0001	8101	BS9574 F0001	9106	BS9574 F0001
7002	BS9574 F0001	8102	BS9574 F0001	9107	BS9574 F0001
7003	BS9574 F0001	8103	BS9574 F0001	9108	BS9574 F0001
7004	BS9574 F0001	8104	BS9574 F0001	9109	BS9574 F0001
7005	BS9574 F0001	8105	BS9574 F0001	9110	BS9574 F0001
7006	BS9574 F0001	8106	BS9574 F0001	9111	BS9574 F0001
7007	BS9574 F0001	8107	BS9574 F0001	916	BS9564 F0002
7008	BS9574 F0001	8108	BS9574 F0001	918	BS9564 F0002
7009	BS9574 F0001	8111M-100	BS9075 F0034	9201	BS9574 F0002
7010	BS9574 F0001	8111M-50	BS9075 F0034	9202	BS9574 F0002
7011	BS9574 F0001	8121M-100	BS9075 F0034	9203	BS9574 F0002
706	BS9564 F0002	8121M-50	BS9075 F0034	9204	BS9574 F0002
708	BS9564 F0002	8121N-100	BS9075 F0034	9205	BS9574 F0002
7101	BS9574 F0001	8121N-50	BS9075 F0034	9206	BS9574 F0002
7102	BS9574 F0001	8131M-100	BS9075 F0034	9207	BS9574 F0002
7103	BS9574 F0001	8131M-50	BS9075 F0034	9208	BS9574 F0002
7104	BS9574 F0001	816	BS9564 F0002	9209	BS9574 F0002
7105	BS9574 F0001	818	BS9564 F0002	920x	BS9574 F0002
7106	BS9574 F0001	8201	BS9574 F0002	9210	BS9574 F0002
7107	BS9574 F0001	8202	BS9574 F0002	9211	BS9574 F0002
7108	BS9574 F0001	8203	BS9574 F0002	9301	BS9574 F0002
7109	BS9574 F0001	8204	BS9574 F0002	9302	BS9574 F0002
7110	BS9574 F0001	8205	BS9574 F0002	9303	BS9574 F0002
711-00Exx-xxPx	BS9522 F0042	8206	BS9574 F0002	9304	BS9574 F0002
711-02Axx-xxPx	BS9522 F0042	8207	BS9574 F0002	9305	BS9574 F0002
711-05Exx-xxSx	BS9522 F0042	8208	BS9574 F0002	9306	BS9574 F0002
711-06Exx-xxSx	BS9522 F0042	820x	BS9574 F0002	9307	BS9574 F0002
711-07Exx-xxPx	BS9574 F0001	8301	BS9574 F0002	9308	BS9574 F0002
7111	BS9522 F0043	8302	BS9574 F0002	9309	BS9574 F0002
711GB series	BS9522 F0042	8303	BS9574 F0002	930x	BS9574 F0002
711 series	BS9522 F0043	8304	BS9574 F0002	9310	BS9574 F0002
	BS9564 F0002	8305	BS9574 F0002	9311	BS9574 F0002
716	BS9564 F0002	8306	BS9574 F0002	96224Z	BS9210 F0022
718	BS9564 F0002	8307	BS9574 F0002	96225Z	BS9210 F0022
7201	BS9574 F0002	8308	BS9574 F0002	96226Z	BS9210 F0022
7202	BS9574 F0002	830x	BS9574 F0002	96228Z	BS9210 F0022
7203	BS9574 F0002	837 series	BS9525 F0012	96229Z	BS9210 F0022
7204	BS9574 F0002	838 series	BS9525 F0006	96230Z	BS9210 F0022
7205	BS9574 F0002		BS9525 N0001	96231Z	BS9210 F0022
7206	BS9574 F0002		BS9450 F0001	96233Z	BS9210 F0022
7207	BS9574 F0002	887-1	BS9450 F0001	96234Z	BS9210 F0022
7208	BS9574 F0002	887-3	BS9450 F0001	96235Z	BS9210 F0022
7209	BS9574 F0002	887-5	BS9450 F0001	96236Z	BS9210 F0022
720x	BS9574 F0002	888-1	BS9450 F0001	96237Z	BS9210 F0022
7210	BS9574 F0002	888-3	BS9450 F0001	96237Z	BS9210 F0022
7211	BS9574 F0002	888-5	BS9450 F0001	96238Z	BS9210 F0022
7301	BS9574 F0002	898-1	BS9450 F0001	96239Z	BS9210 F0022
7302	BS9574 F0002	898-3	BS9450 F0001	96240Z	BS9210 F0022
7303	BS9574 F0002	898-5	BS9450 F0001	96251Z	BS9210 F0022
7304	BS9574 F0002	898-x series	BS9450 F0001	96252Z	BS9210 F0022
7305	BS9574 F0002	899-1	BS9450 F0001	96253Z	BS9210 F0022
7306	BS9574 F0002	899-3	BS9450 F0001	9xxx series	BS9574 F0001
7307	BS9574 F0002	899-5	BS9450 F0001		
7308	BS9574 F0002	899-x series	BS9450 F0001		
7309	BS9574 F0002	8xxx series	BS9574 F0001		
730x	BS9574 F0002				
7310	BS9574 F0002			A12E	BS9070 N0003
7311	BS9574 F0002			A1M	BS9070 N0002
				A22E	BS9070 N0001
			9		

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A2B	BS9076 N0004	AFCL060	BS9121 F0021	AFCL060	BS9121 F0021
A2M	BS9070 N0002	115NJW1G		247DJW2T	
A34E	BS9070 N0003	AFCL060	BS9121 F0021	AFCL060 series	BS9121 F0021
A3M	BS9070 N0002	115NJW1S		AFCL100	BS9121 F0020
A4M	BS9070 N0002	AFCL060	BS9121 F0021	310LFT1G	
A60Z04G999X08	BS9210 N0006	115NJW1T		AFCL100 310LFT1S	BS9121 F0020
A60Z04W999X08	BS9210 N0006	AFCL060	BS9121 F0021	AFCL100 310LFT1T	BS9121 F0020
A60Z05G999X08	BS9210 N0006	115NJW2G		AFCL100	BS9121 F0020
A60Z05W999X08	BS9210 N0006	AFCL060	BS9121 F0021	310LFT2G	
A65A07G073X08	BS9210 N0006	115NJW2S		AFCL100 310LFT2S	BS9121 F0020
A65A07G285X08	BS9210 N0006	AFCL060	BS9121 F0021	AFCL100 310LFT2T	BS9121 F0020
A65A07W073X08	BS9210 N0006	115NJW2T		AFCL100	BS9121 F0020
A65A07W285X08	BS9210 N0006	AFCL060	BS9121 F0021	310LFW1G	
A65A61G010X08	BS9210 N0006	130NJT2G		AFCL100	BS9121 F0020
A65A61G022X08	BS9210 N0006	AFCL060 130NJT2S	BS9121 F0021	310LFW1S	
A65A61G060X08	BS9210 N0006	AFCL060 130NJT2T	BS9121 F0021	AFCL100	BS9121 F0020
A65A61W010X08	BS9210 N0006	AFCL060	BS9121 F0021	310LFW1T	
A65A61W022X08	BS9210 N0006	130NJW2G		AFCL100	BS9121 F0020
A65A61W060X08	BS9210 N0006	AFCL060	BS9121 F0021	310LFW2G	
A65B02G073X08	BS9210 N0006	130NJW2S		AFCL100	BS9121 F0020
A65B02G285X08	BS9210 N0006	AFCL060	BS9121 F0021	310LFW2S	
A65B02W073X08	BS9210 N0006	130NJW2T		AFCL100	BS9121 F0020
A65B02W285X08	BS9210 N0006	AFCL060 150LJT1G	BS9121 F0021	310LFW2T	
A65B62G010X08	BS9210 N0006	AFCL060 150LJT1S	BS9121 F0021	AFCL100	BS9121 F0020
A65B62G022X08	BS9210 N0006	AFCL060 150LJT1T	BS9121 F0021	310LGT1G	
A65B62G060X08	BS9210 N0006	AFCL060	BS9121 F0021	AFCL100	BS9121 F0020
A65B62W010X08	BS9210 N0006	150LJW1G		310LGT1S	
A65B62W022X08	BS9210 N0006	AFCL060	BS9121 F0021	AFCL100	BS9121 F0020
A65B62W060X08	BS9210 N0006	150LJW1S		310LGT1T	
A65E06G073X08	BS9210 N0006	AFCL060	BS9121 F0021	AFCL100	BS9121 F0020
A65E06G285X08	BS9210 N0006	150LJW1T		310LGT2G	
A65E06W073X08	BS9210 N0006	AFCL060 210JTT1G	BS9121 F0021	AFCL100	BS9121 F0020
A65E06W285X08	BS9210 N0006	AFCL060 210JTT1S	BS9121 F0021	310LGT2S	
A65E66G010X08	BS9210 N0006	AFCL060 210JTT1T	BS9121 F0021	AFCL100	BS9121 F0020
A65E66G022X08	BS9210 N0006	AFCL060	BS9121 F0021	310LGT2T	
A65E66G060X08	BS9210 N0006	210JJW1G		AFCL100	BS9121 F0020
A65E66W010X08	BS9210 N0006	AFCL060	BS9121 F0021	310LW1G	
A65E66W022X08	BS9210 N0006	210JJW1S		AFCL100	BS9121 F0020
A65E66W060X08	BS9210 N0006	AFCL060	BS9121 F0021	310LW1S	
A65H65G010X08	BS9210 N0006	210JJW1T		AFCL100	BS9121 F0020
A65H65G022X08	BS9210 N0006	AFCL060 210LJT2G	BS9121 F0021	310LW1T	
A65H65G060X08	BS9210 N0006	AFCL060 210LJT2S	BS9121 F0021	AFCL100	BS9121 F0020
A65H65W010X08	BS9210 N0006	AFCL060 210LJT2T	BS9121 F0021	310LW2G	
A65H65W022X08	BS9210 N0006	AFCL060	BS9121 F0021	AFCL100	BS9121 F0020
A65H65W060X08	BS9210 N0006	210LJW2G		310LW2S	
A65K31G999A08	BS9210 N0006	AFCL060	BS9121 F0021	AFCL100	BS9121 F0020
A65K31W999A08	BS9210 N0006	210LJW2S		310LW2T	
A65K34G999A08	BS9210 N0006	AFCL060	BS9121 F0021	AFCL100	BS9121 F0020
A65K34W999A08	BS9210 N0006	210LJW2T		310LHT1G	
A65M08G999X08	BS9210 N0006	AFCL060	BS9121 F0021	AFCL100	BS9121 F0020
A65M08W999X08	BS9210 N0006	227DJT1G		310LHT1S	
A65P51G999X08	BS9210 N0006	AFCL060 227DJT1S	BS9121 F0021	AFCL100 310LHT1T	BS9121 F0020
A65P51W999X08	BS9210 N0006	AFCL060 227DJT1T	BS9121 F0021	AFCL100	BS9121 F0020
A65P52G999X08	BS9210 N0006	AFCL060	BS9121 F0021	310LHT2G	
A65P52W999X08	BS9210 N0006	227DJW1G		AFCL100	BS9121 F0020
A65R53G999X08	BS9210 N0006	AFCL060	BS9121 F0021	310LHT2S	
A65R53W999X08	BS9210 N0006	227DJW1S		AFCL100 310LHT2T	BS9121 F0020
A65S32G999A08	BS9210 N0006	AFCL060	BS9121 F0021	AFCL100310LHW1	BS9121 F0020
A65S32W999A08	BS9210 N0006	227DJW1T		G	
A65S35G999A08	BS9210 N0006	AFCL060 227JTT2G	BS9121 F0021	AFCL100	BS9121 F0020
A65S35W999A08	BS9210 N0006	AFCL060 227JTT2S	BS9121 F0021	310LHW1S	
AB 05	BS9522 F0017	AFCL060 227JTT2T	BS9121 F0021	AFCL100	BS9121 F0020
ABB Part 121	BS9522 F0032	AFCL060	BS9121 F0021	310LHW1T	
ABB series	BS9522 F0032	227JJW2G		AFCL100310LHW2	BS9121 F0020
ACCU/F	PQC86 IL0001	AFCL060	BS9121 F0021	G	
ADC-304MM	BS9400 G0177	227JJW2S		AFCL100	BS9121 F0020
AFCL060	BS9121 F0021	AFCL060	BS9121 F0021	310LHW2S	
115NJT1G		227JJW2T	BS9121 F0021	AFCL100	BS9121 F0020
AFCL060 115NJT1S	BS9121 F0021	247DJT2G		310LHW2T	
AFCL060 115NJT1T	BS9121 F0021	AFCL060 247DJT2S	BS9121 F0021	AFCL100 310LJT3G	BS9121 F0020
AFCL060	BS9121 F0021	AFCL060 247DJT2T	BS9121 F0021	AFCL100 310LJT3S	BS9121 F0020
115NJT2G		AFCL060	BS9121 F0021	AFCL100 310LJT3T	BS9121 F0020
AFCL060 115NJT2S	BS9121 F0021	247DJW2G	BS9121 F0021	AFCL100 310LJT4G	BS9121 F0020
AFCL060 115NJT2T	BS9121 F0021	AFCL060	BS9121 F0021	AFCL100 310LJT4S	BS9121 F0020
AFCL060	BS9121 F0021	247DJW2S		AFCL100 310LJT4T	BS9121 F0020
115NJW1G		247DJW2S	BS9121 F0021		

AFCL100	BS9121 F0020	AFCL100 322JJT4G	BS9121 F0020	AFCL100	BS9121 F0020
310LJW3G		AFCL100 322JJT4S	BS9121 F0020	347DGW2G	BS9121 F0020
AFCL100	BS9121 F0020	AFCL100 322JJT4T	BS9121 F0020	AFCL100	BS9121 F0020
310LJW3S		AFCL100	BS9121 F0020	347DGW2S	BS9121 F0020
AFCL100	BS9121 F0020	322JJW3G		AFCL100	BS9121 F0020
310LJW3T		AFCL100	BS9121 F0020	347DGW2T	
AFCL100	BS9121 F0020	322JJW3S	BS9121 F0020	AFCL100	BS9121 F0020
310LJW4G		AFCL100	BS9121 F0020	347DHT1G	BS9121 F0020
AFCL100	BS9121 F0020	322JJW3T		AFCL100	BS9121 F0020
310LJW4S		AFCL100	BS9121 F0020	347DHT1S	BS9121 F0020
AFCL100	BS9121 F0020	322JJW4G		AFCL100	BS9121 F0020
310LJW4T		AFCL100	BS9121 F0020	347DHT1T	BS9121 F0020
AFCL100 322JFT1G	BS9121 F0020	322JJW4S	BS9121 F0020	AFCL100	BS9121 F0020
AFCL100 322JFT1S	BS9121 F0020	AFCL100	BS9121 F0020	347DHT2G	
AFCL100 322JFT1T	BS9121 F0020	322JJW4T		AFCL100	BS9121 F0020
AFCL100 322JFT2G	BS9121 F0020	AFCL100 332LJT1G	BS9121 F0020	347DHT2S	BS9121 F0020
AFCL100 322JFT2S	BS9121 F0020	AFCL100 332LJT1S	BS9121 F0020	AFCL100	BS9121 F0020
AFCL100 322JFT2T	BS9121 F0020	AFCL100 332LJT1T	BS9121 F0020	347DHT2T	
AFCL100	BS9121 F0020	AFCL100 332LJT2G	BS9121 F0020	AFCL100	BS9121 F0020
322JFW1G		AFCL100 332LJT2S	BS9121 F0020	347DHW1G	BS9121 F0020
AFCL100	BS9121 F0020	AFCL100 332LJT2T	BS9121 F0020	AFCL100	BS9121 F0020
322JFW1S		AFCL100	BS9121 F0020	347DHW1S	
AFCL100	BS9121 F0020	332LJW1G		AFCL100	BS9121 F0020
322JFW1T		AFCL100	BS9121 F0020	347DHW1T	BS9121 F0020
AFCL100	BS9121 F0020	332LJW1S		AFCL100	BS9121 F0020
322JFW2G		AFCL100	BS9121 F0020	347DHW2G	
AFCL100	BS9121 F0020	332LJW1T		AFCL100	BS9121 F0020
322JFW2S		AFCL100	BS9121 F0020	347DHW2S	BS9121 F0020
AFCL100	BS9121 F0020	332LJW2G		AFCL100	BS9121 F0020
322JFW2T		AFCL100	BS9121 F0020	347DHW2T	BS9121 F0020
AFCL100	BS9121 F0020	332LJW2S		AFCL100	BS9121 F0020
322JGT1G		AFCL100	BS9121 F0020	347DJT3G	
AFCL100	BS9121 F0020	332LJW2T		AFCL100 347DJT3S	BS9121 F0020
322JGT1S		AFCL100	BS9121 F0020	AFCL100 347DJT3T	BS9121 F0020
AFCL100 322JGT1T	BS9121 F0020	347DFT1G		AFCL100	BS9121 F0020
AFCL100	BS9121 F0020	AFCL100	BS9121 F0020	347DJT4G	
322JGT2G		347DFT1S		AFCL100 347DJT4S	BS9121 F0020
AFCL100	BS9121 F0020	AFCL100	BS9121 F0020	AFCL100 347DJT4T	BS9121 F0020
322JGT2S		347DFT1T		AFCL100	BS9121 F0020
AFCL100 322JGT2T	BS9121 F0020	AFCL100	BS9121 F0020	347DJW3G	
AFCL100	BS9121 F0020	347DFT2G		AFCL100	BS9121 F0020
322JGW1G		AFCL100	BS9121 F0020	347DJW3S	BS9121 F0020
AFCL100	BS9121 F0020	347DFT2S		AFCL100	BS9121 F0020
322JGW1S		AFCL100	BS9121 F0020	347DJW3T	
AFCL100	BS9121 F0020	347DFT2T		AFCL100	BS9121 F0020
322JGW1T		AFCL100	BS9121 F0020	347DJW4G	
AFCL100	BS9121 F0020	347DFW1G		AFCL100	BS9121 F0020
322JGW2G		AFCL100	BS9121 F0020	347DJW4S	
AFCL100	BS9121 F0020	347DFW1S		AFCL100	BS9121 F0020
322JGW2S		AFCL100	BS9121 F0020	347DJW4T	
AFCL100	BS9121 F0020	347DFW1T		AFCL100 347JJT1G	BS9121 F0020
322JGW2T		AFCL100	BS9121 F0020	AFCL100 347JJT1S	BS9121 F0020
AFCL100	BS9121 F0020	347DFW2G		AFCL100 347JJT1T	BS9121 F0020
322JHT1G		AFCL100	BS9121 F0020	AFCL100 347JJT2G	BS9121 F0020
AFCL100 322JHT1S	BS9121 F0020	347DFW2S		AFCL100 347JJT2S	BS9121 F0020
AFCL100 322JHT1T	BS9121 F0020	AFCL100	BS9121 F0020	AFCL100 347JJT2T	BS9121 F0020
AFCL100	BS9121 F0020	347DFW2T		AFCL100	BS9121 F0020
322JHT2G		AFCL100	BS9121 F0020	347JJW1G	
AFCL100 322JHT2S	BS9121 F0020	347DGT1G		AFCL100	BS9121 F0020
AFCL100 322JHT2T	BS9121 F0020	AFCL100	BS9121 F0020	347JJW1S	
AFCL100	BS9121 F0020	347DGT1S		AFCL100	BS9121 F0020
322JHW1G		AFCL100	BS9121 F0020	347JJW1T	
AFCL100	BS9121 F0020	347DGT1T		AFCL100	BS9121 F0020
322JHW1S		AFCL100	BS9121 F0020	347JJW2G	
AFCL100	BS9121 F0020	347DGT2G		AFCL100	BS9121 F0020
322JHW1T		AFCL100	BS9121 F0020	347JJW2S	BS9121 F0020
AFCL100	BS9121 F0020	347DGT2S		AFCL100	BS9121 F0020
322JHW2G		AFCL100	BS9121 F0020	347JJW2T	
AFCL100	BS9121 F0020	347DGT2T		AFCL100	BS9121 F0020
322JHW2S		AFCL100	BS9121 F0020	382DJT1G	
AFCL100	BS9121 F0020	347DGW1G		AFCL100 382DJT1S	BS9121 F0020
322JHW2T		AFCL100	BS9121 F0020	AFCL100 382DJT1T	BS9121 F0020
AFCL100 322JJT3G	BS9121 F0020	347DGW1S		AFCL100	BS9121 F0020
AFCL100 322JJT3S	BS9121 F0020	AFCL100	BS9121 F0020	382DJT2G	
AFCL100 322JJT3T	BS9121 F0020	347DGW1T		AFCL100 382DJT2S	BS9121 F0020

DCS504N-01N2	BS9121 F0010	DCT528P	BS9121 F0009	DLT409N-80N0	BS9121 F0010
DCS504N-02N7	BS9121 F0010	DCT540P	BS9121 F0011	DLT4122P-300N	BS9121 F0010
DCS504N-100P	BS9121 F0010	DCT541P	BS9121 F0011	DLT418N-01N0	BS9121 F0010
DCS504N-500P	BS9121 F0010	DCT607N-01N0	BS9121 F0010	DLT418N-04N7	BS9121 F0010
DCS704N-01N2	BS9121 F0010	DCT607N-04N7	BS9121 F0010	DLT418N-100N	BS9121 F0010
DCS704N-100P	BS9121 F0010	DCT607N-10N0	BS9121 F0010	DLT418N-100P	BS9121 F0010
DCS704N-500P	BS9121 F0010	DCT607N-22N0	BS9121 F0010	DLT418N-10N0	BS9121 F0010
DCS series	BS9121 F0010	DCT607N-330P	BS9121 F0010	DLT418N-22N0	BS9121 F0010
DCT105N-45N0	BS9121 F0010	DCT607N-680P	BS9121 F0010	DLT418N-22P0	BS9121 F0010
DCT106N-45N0	BS9121 F0010	DCT626P	BS9121 F0009	DLT418N-330P	BS9121 F0010
DCT108N-50N0	BS9121 F0010	DCT628P	BS9121 F0009	DLT418N-470P	BS9121 F0010
DCT109N-50N0	BS9121 F0010	DCT640P	BS9121 F0011	DLT418N-47N0	BS9121 F0010
DCT122P-01U0	BS9121 F0010	DCT641P	BS9121 F0011	DLT418N-47P0	BS9121 F0010
DCT205N-01N2	BS9121 F0010	DCT705N-01N2	BS9121 F0010	DLT418N-680P	BS9121 F0010
DCT205N-02N7	BS9121 F0010	DCT705N-100P	BS9121 F0010	DLT419N-01N0	BS9121 F0010
DCT205N-05N0	BS9121 F0010	DCT705N-500P	BS9121 F0010	DLT419N-04N7	BS9121 F0010
DCT205N-100P	BS9121 F0010	DCT706N-01N2	BS9121 F0010	DLT419N-100N	BS9121 F0010
DCT205N-31N0	BS9121 F0010	DCT706N-100P	BS9121 F0010	DLT419N-100P	BS9121 F0010
DCT205N-500P	BS9121 F0010	DCT706N-500P	BS9121 F0010	DLT419N-10N0	BS9121 F0010
DCT206N-01N2	BS9121 F0010	DCT740P	BS9121 F0011	DLT419N-22N0	BS9121 F0010
DCT206N-02N7	BS9121 F0010	DCT741P	BS9121 F0011	DLT419N-22P0	BS9121 F0010
DCT206N-05N0	BS9121 F0010	DCT840P	BS9121 F0011	DLT419N-330P	BS9121 F0010
DCT206N-100P	BS9121 F0010	DCT841P	BS9121 F0011	DLT419N-470P	BS9121 F0010
DCT206N-31N0	BS9121 F0010	DCT940P	BS9121 F0011	DLT419N-47N0	BS9121 F0010
DCT206N-500P	BS9121 F0010	DCT941P	BS9121 F0011	DLT419N-47P0	BS9121 F0010
DCT208N-120N	BS9121 F0010	DCT series	BS9121 F0009	DLT419N-680P	BS9121 F0010
DCT209N-120N	BS9121 F0010	to	BS9121 F0011	DLT4208N-50N0	BS9121 F0010
DCT222P-750N	BS9121 F0010	DLT050BLB	BS9121 F0008	DLT4209N-50N0	BS9121 F0010
DCT326P	BS9121 F0009	DLT051BLB	BS9121 F0008	DLT425P	BS9121 F0009
DCT328P	BS9121 F0009	DLT100	BS9075 F0006	DLT426P	BS9121 F0009
DCT340P	BS9121 F0011	DLT1000	BS9075 F0006	DLT427P	BS9121 F0009
DCT405N-15N0	BS9121 F0010	DLT10000	BS9075 F0006	DLT429B	BS9121 F0009
DCT406N-15N0	BS9121 F0010	DLT108N-50N0	BS9121 F0010	DLT429E	BS9121 F0009
DCT408N-80N0	BS9121 F0010	DLT109N-50N0	BS9121 F0010	DLT429G	BS9121 F0009
DCT409N-80N0	BS9121 F0010	DLT122P-01U0	BS9121 F0010	DLT429H	BS9121 F0009
DCT4122P-300N	BS9121 F0010	DLT200ALB	BS9121 F0008	DLT429J	BS9121 F0009
DCT418N-01N0	BS9121 F0010	DLT200BLB	BS9121 F0008	DLT429M	BS9121 F0009
DCT418N-04N7	BS9121 F0010	DLT200CLB	BS9121 F0008	DLT431A	BS9121 F0009
DCT418N-100N	BS9121 F0010	DLT200DLB	BS9121 F0008	DLT431C	BS9121 F0009
DCT418N-100P	BS9121 F0010	DLT200ELB	BS9121 F0008	DLT431E	BS9121 F0009
DCT418N-10N0	BS9121 F0010	DLT200FLB	BS9121 F0008	DLT431F	BS9121 F0009
DCT418N-22N0	BS9121 F0010	DLT208N-120N	BS9121 F0010	DLT431G	BS9121 F0009
DCT418N-22P0	BS9121 F0010	DLT209N-120N	BS9121 F0010	DLT431H	BS9121 F0009
DCT418N-330P	BS9121 F0010	DLT215ALT	BS9121 F0008	DLT431K	BS9121 F0009
DCT418N-470P	BS9121 F0010	DLT215BLT	BS9121 F0008	DLT431M	BS9121 F0009
DCT418N-47N0	BS9121 F0010	DLT215CLT	BS9121 F0008	DLT431N	BS9121 F0009
DCT418N-47P0	BS9121 F0010	DLT215DLT	BS9121 F0008	DLT470	BS9075 F0006
DCT418N-680P	BS9121 F0010	DLT215ELT	BS9121 F0008	DLT4700	BS9075 F0006
DCT419N-01N0	BS9121 F0010	DLT215FLT	BS9121 F0008	DLT4/C/1000	BS9121 F0006
DCT419N-04N7	BS9121 F0010	DLT222P-750N	BS9121 F0010	DLT4/C/10000	BS9121 F0006
DCT419N-100N	BS9121 F0010	DLT2/L/1200n	BS9121 F0012	DLT4/C/22000	BS9121 F0006
DCT419N-100P	BS9121 F0010	DLT2/L/1200n/LP	BS9121 F0012	DLT4/C/330	BS9121 F0006
DCT419N-10N0	BS9121 F0010	DLT325P	BS9121 F0009	DLT4/C/4700	BS9121 F0006
DCT419N-22N0	BS9121 F0010	DLT326P	BS9121 F0009	DLT4/C/680	BS9121 F0006
DCT419N-22P0	BS9121 F0010	DLT327P	BS9121 F0009	DLT4/C/ series	BS9121 F0006
DCT419N-330P	BS9121 F0010	DLT330	BS9075 F0006	DLT4/L/1000	BS9121 F0007
DCT419N-470P	BS9121 F0010	DLT331A	BS9121 F0009	DLT4/L/10000	BS9121 F0007
DCT419N-47N0	BS9121 F0010	DLT331G	BS9121 F0009	DLT4/L/22000	BS9121 F0007
DCT419N-47P0	BS9121 F0010	DLT331H	BS9121 F0009	DLT4/L/330	BS9121 F0007
DCT419N-680P	BS9121 F0010	DLT331K	BS9121 F0009	DLT4/L/4700	BS9121 F0007
DCT4208N-50N0	BS9121 F0010	DLT331M	BS9121 F0009	DLT4/L/680	BS9121 F0007
DCT4209N-50N0	BS9121 F0010	DLT331N	BS9121 F0009	DLT4/L/ series	BS9121 F0007
DCT426P	BS9121 F0009	DLT342G	BS9121 F0011	DLT5122P-100N	BS9121 F0010
DCT428P	BS9121 F0009	DLT342H	BS9121 F0011	DLT525P	BS9121 F0009
DCT505N-01N2	BS9121 F0010	DLT342K	BS9121 F0011	DLT526P	BS9121 F0009
DCT505N-02N7	BS9121 F0010	DLT342M	BS9121 F0011	DLT527P	BS9121 F0009
DCT505N-100P	BS9121 F0010	DLT342N	BS9121 F0011	DLT531G	BS9121 F0009
DCT505N-500P	BS9121 F0010	DLT3/C/22000	BS9121 F0018	DLT531H	BS9121 F0009
DCT506N-01N2	BS9121 F0010	DLT3/C/22000/Ref 1	BS9121 F0018	DLT531K	BS9121 F0009
DCT506N-02N7	BS9121 F0010	DLT3/C/330	BS9121 F0018	DLT531M	BS9121 F0009
DCT506N-100P	BS9121 F0010	DLT3/C/330/Ref 1	BS9121 F0018	DLT531N	BS9121 F0009
DCT506N-500P	BS9121 F0010	DLT3/LT	BS9121 F0018	DLT542G	BS9121 F0011
DCT5122P-100N	BS9121 F0010	DLT3/LT/Ref 1	BS9121 F0018	DLT542H	BS9121 F0011
DCT526P	BS9121 F0009	DLT3/ series	BS9121 F0018	DLT542K	BS9121 F0011
DCT527P	BS9121 F0009	DLT408N-80N0	BS9121 F0010	DLT542M	BS9121 F0011

DLT542N	BS9121 F0011	DPT633G	BS9121 F0009	DUT331A	BS9121 F0009
DLT607N-01N0	BS9121 F0010	DPT633H	BS9121 F0009	DUT331G	BS9121 F0009
DLT607N-04N7	BS9121 F0010	DPT633K	BS9121 F0009	DUT331H	BS9121 F0009
DLT607N-10N0	BS9121 F0010	DPT633M	BS9121 F0009	DUT331K	BS9121 F0009
DLT607N-22N0	BS9121 F0010	DPT633N	BS9121 F0009	DUT331M	BS9121 F0009
DLT607N-330P	BS9121 F0010	DPT643G	BS9121 F0011	DUT331N	BS9121 F0009
DLT607N-680P	BS9121 F0010	DPT643H	BS9121 F0011	DUT342G	BS9121 F0011
DLT625P	BS9121 F0009	DPT643K	BS9121 F0011	DUT342H	BS9121 F0011
DLT626P	BS9121 F0009	DPT643M	BS9121 F0011	DUT342K	BS9121 F0011
DLT627P	BS9121 F0009	DPT643N	BS9121 F0011	DUT342M	BS9121 F0011
DLT631G	BS9121 F0009	DPT743G	BS9121 F0011	DUT342N	BS9121 F0011
DLT631H	BS9121 F0009	DPT743H	BS9121 F0011	DUT429B	BS9121 F0009
DLT631K	BS9121 F0009	DPT743K	BS9121 F0011	DUT429E	BS9121 F0009
DLT631M	BS9121 F0009	DPT743M	BS9121 F0011	DUT429G	BS9121 F0009
DLT631N	BS9121 F0009	DPT743N	BS9121 F0011	DUT429H	BS9121 F0009
DLT642G	BS9121 F0011	DPT843G	BS9121 F0011	DUT429J	BS9121 F0009
DLT642H	BS9121 F0011	DPT843H	BS9121 F0011	DUT429M	BS9121 F0009
DLT642K	BS9121 F0011	DPT843K	BS9121 F0011	DUT431G	BS9121 F0009
DLT642M	BS9121 F0011	DPT843M	BS9121 F0011	DUT431H	BS9121 F0009
DLT642N	BS9121 F0011	DPT843N	BS9121 F0011	DUT431K	BS9121 F0009
DLT680	BS9075 F0006	DPT943G	BS9121 F0011	DUT431M	BS9121 F0009
DLT742G	BS9121 F0011	DPT943H	BS9121 F0011	DUT431N	BS9121 F0009
DLT742H	BS9121 F0011	DPT943K	BS9121 F0011	DUT531G	BS9121 F0009
DLT742K	BS9121 F0011	DPT943M	BS9121 F0011	DUT531H	BS9121 F0009
DLT742M	BS9121 F0011	DPT943N	BS9121 F0011	DUT531K	BS9121 F0009
DLT742N	BS9121 F0011	DPT series	BS9121 F0009	DUT531M	BS9121 F0009
DLT842G	BS9121 F0011		BS9121 F0011	DUT531N	BS9121 F0009
DLT842H	BS9121 F0011	DTT334H	BS9121 F0009	DUT542G	BS9121 F0011
DLT842K	BS9121 F0011	DTT334J	BS9121 F0009	DUT542H	BS9121 F0011
DLT842M	BS9121 F0011	DTT334L	BS9121 F0009	DUT542K	BS9121 F0011
DLT842N	BS9121 F0011	DTT334N	BS9121 F0009	DUT542M	BS9121 F0011
DLT942G	BS9121 F0011	DTT343H	BS9121 F0011	DUT542N	BS9121 F0011
DLT942H	BS9121 F0011	DTT343J	BS9121 F0011	DUT631G	BS9121 F0009
DLT942K	BS9121 F0011	DTT343K	BS9121 F0011	DUT631H	BS9121 F0009
DLT942M	BS9121 F0011	DTT343L	BS9121 F0011	DUT631K	BS9121 F0009
DLT942N	BS9121 F0011	DTT343M	BS9121 F0011	DUT631M	BS9121 F0009
DLTM100	BS9075 F0006	DTT434H	BS9121 F0009	DUT631N	BS9121 F0009
DLTM1000	BS9075 F0006	DTT434J	BS9121 F0009	DUT642G	BS9121 F0011
DLTM10000	BS9075 F0006	DTT434L	BS9121 F0009	DUT642H	BS9121 F0011
DLTM330	BS9075 F0006	DTT434N	BS9121 F0009	DUT642K	BS9121 F0011
DLTM470	BS9075 F0006	DTT533N	BS9121 F0009	DUT642M	BS9121 F0011
DLTM4700	BS9075 F0006	DTT534H	BS9121 F0009	DUT642N	BS9121 F0011
DLTM680	BS9075 F0006	DTT534J	BS9121 F0009	DUT742G	BS9121 F0011
DLT series	BS9121 F0009	DTT534L	BS9121 F0009	DUT742H	BS9121 F0011
to	BS9121 F0011	DTT543H	BS9121 F0011	DUT742K	BS9121 F0011
DPT333G	BS9121 F0009	DTT543J	BS9121 F0011	DUT742M	BS9121 F0011
DPT333H	BS9121 F0009	DTT543K	BS9121 F0011	DUT742N	BS9121 F0011
DPT333K	BS9121 F0009	DTT543L	BS9121 F0011	DUT842G	BS9121 F0011
DPT333M	BS9121 F0009	DTT543M	BS9121 F0011	DUT842H	BS9121 F0011
DPT333N	BS9121 F0009	DTT634H	BS9121 F0009	DUT842K	BS9121 F0011
DPT343G	BS9121 F0011	DTT634J	BS9121 F0009	DUT842M	BS9121 F0011
DPT343H	BS9121 F0011	DTT634L	BS9121 F0009	DUT842N	BS9121 F0011
DPT343K	BS9121 F0011	DTT634N	BS9121 F0009	DUT942G	BS9121 F0011
DPT343M	BS9121 F0011	DTT643H	BS9121 F0011	DUT942H	BS9121 F0011
DPT343N	BS9121 F0011	DTT643J	BS9121 F0011	DUT942K	BS9121 F0011
DPT431B	BS9121 F0009	DTT643K	BS9121 F0011	DUT942M	BS9121 F0011
DPT431E	BS9121 F0009	DTT643L	BS9121 F0011	DUT942N	BS9121 F0011
DPT431G	BS9121 F0009	DTT643M	BS9121 F0011	DUT series	BS9121 F0009
DPT431H	BS9121 F0009	DTT743H	BS9121 F0011		BS9121 F0011
DPT431J	BS9121 F0009	DTT743J	BS9121 F0011	DXT345H	BS9121 F0011
DPT431M	BS9121 F0009	DTT743K	BS9121 F0011	DXT345L	BS9121 F0011
DPT433G	BS9121 F0009	DTT743L	BS9121 F0011	DXT545H	BS9121 F0011
DPT433H	BS9121 F0009	DTT743M	BS9121 F0011	DXT545L	BS9121 F0011
DPT433K	BS9121 F0009	DTT843H	BS9121 F0011	DXT635H	BS9121 F0009
DPT433N	BS9121 F0009	DTT843J	BS9121 F0011	DXT635L	BS9121 F0009
DPT533G	BS9121 F0009	DTT843K	BS9121 F0011	DXT645H	BS9121 F0011
DPT533H	BS9121 F0009	DTT843L	BS9121 F0011	DXT745H	BS9121 F0011
DPT533K	BS9121 F0009	DTT843M	BS9121 F0011	DXT745L	BS9121 F0011
DPT533M	BS9121 F0009	DTT943H	BS9121 F0011	DXT845H	BS9121 F0011
DPT533N	BS9121 F0009	DTT943J	BS9121 F0011	DXT845L	BS9121 F0011
DPT543G	BS9121 F0011	DTT943K	BS9121 F0011	DXT945H	BS9121 F0011
DPT543H	BS9121 F0011	DTT943L	BS9121 F0011	DXT945L	BS9121 F0011
DPT543K	BS9121 F0011	DTT943M	BS9121 F0011	DXT series	BS9121 F0009
DPT543M	BS9121 F0011	DTT series	BS9121 F0009		BS9121 F0011
DPT543N	BS9121 F0011		BS9121 F0011	DYT344H	BS9121 F0011

DYT344M	BS9121 F0011	H17-1	BS9450 F0001	to	BS9430 F0711
DYT534H	BS9121 F0009	H17-5	BS9450 F0001	IP137AK	BS9430 F0686
DYT534L	BS9121 F0009	H18-1	BS9450 F0001	to	BS9430 F0690
DYT544H	BS9121 F0011	H18-3	BS9450 F0001	IP137AR	BS9430 F0693
DYT544M	BS9121 F0011	H18-5	BS9450 F0001	to	BS9430 F0697
DYT644H	BS9121 F0011	H19-1	BS9450 F0001	IP137G	BS9430 F0798
DYT744H	BS9121 F0011	H19-5	BS9450 F0001	to	BS9430 F0802
DYT744M	BS9121 F0011	H20-1	BS9450 F0001	IP137HVG	BS9430 F0805
DYT844H	BS9121 F0011	H20-3	BS9450 F0001	to	BS9430 F0809
DYT844M	BS9121 F0011	H20-5	BS9450 F0001	IP137HVK	BS9430 F0672
DYT944H	BS9121 F0011	HD09	BS9075 F0045	to	BS9430 F0676
DYT944M	BS9121 F0011	HD10	BS9075 F0045	IP137HVR	BS9430 F0679
DYT series	BS9121 F0009	HD16	BS9075 F0045	to	BS9430 F0683
	BS9121 F0011	HD25	BS9075 F0045	IP137K	BS9430 F0658
	BS9525 F0033	HDD1	BS9151 F0029	to	BS9430 F0662
		HDD4	BS9151 F0030	IP137MAH	BS9430 F0742
		HDS10	BS9151 F0041	to	BS9430 F0746
		HDS5	BS9151 F0026	IP137MAHVH	BS9430 F0756
		HF	BS9151 F0007	to	BS9430 F0760
			BS9151 F0026	IP137MAHVR	BS9430 F0763
			BS9490 F8184	to	BS9430 F0767
			BS9490 F8184	IP137MAR	BS9430 F0749
			BS9490 F8185	to	BS9430 F0753
			BS9490 F8180	IP137MH	BS9430 F0714
			BS9525 F0053	to	BS9430 F0718
			BS9525 F0041	IP137MHVH	BS9430 F0728
			BS9525 N0001	to	BS9430 F0732
			BS9525 F0016	IP137MHVR	BS9430 F0735
			BS9525 F0016	to	BS9430 F0739
			BS9525 F0053	IP137MR	BS9430 F0721
			BS9525 N0001	to	BS9430 F0725
			BS9074 N0002	IP137R	BS9430 F0665
			BS9450 F0001	to	BS9430 F0669
				IP138AK	BS9430 F0525
				to	BS9430 F0529
				IP138K	BS9430 F0518
				to	BS9430 F0518
				IP140AG	BS9430 F0522
				to	BS9430 F0853
				IP140AK-12	BS9430 F0857
				to	BS9430 F0546
				IP140AK-15	BS9430 F0550
				to	BS9430 F0546
				IP140AK-5	BS9430 F0550
				to	BS9430 F0546
				IP140AR-12	BS9430 F0550
				to	BS9430 F0553
				IP140AR-15	BS9430 F0557
				to	BS9430 F0553
				IP140AR-5	BS9430 F0557
				to	BS9430 F0553
				IP140G	BS9430 F0557
				to	BS9430 F0846
				IP140K-12	BS9430 F0850
				to	BS9430 F0532
				IP140K-15	BS9430 F0536
				to	BS9430 F0532
				IP140K-5	BS9430 F0532
				to	BS9430 F0536
				IP140MAH-12	BS9430 F0536
				to	BS9430 F0574
				IP140MAH-15	BS9430 F0578
				to	BS9430 F0574
				IP140MAH-5	BS9430 F0578
				to	BS9430 F0574
				IP140MAR-12	BS9430 F0578
				to	BS9430 F0581
				IP140MAR-15	BS9430 F0585
				to	BS9430 F0581
				IP140MAR-5	BS9430 F0585
				to	BS9430 F0581
				IP140MH-12	BS9430 F0585
				to	BS9430 F0560
				IP140MH-15	BS9430 F0564
				to	BS9430 F0560
					BS9430 F0564

IP140MH-5	BS9430 F0560	IP240MAR-15	BS9430 F0586	IP3524BJ	BS9493 F0091
to	BS9430 F0564	IP240MAR-5	BS9430 F0586	IP3526AJ	BS9493 F0145
IP140MR-12	BS9430 F0567	IP240MH-12	BS9430 F0565	IP3842J	BS9493 F0159
to	BS9430 F0571	IP240MH-15	BS9430 F0565	IP3843J	BS9493 F0166
IP140MR-15	BS9430 F0567	IP240MH-5	BS9430 F0565	IP75M12H	BS9430 F0630
to	BS9430 F0571	IP240MR-12	BS9430 F0572	to	BS9430 F0634
IP140MR-5	BS9430 F0567	IP240MR-15	BS9430 F0572	IP7800AG	BS9430 F0853
to	BS9430 F0571	IP240MR-5	BS9430 F0572	to	BS9430 F0857
IP140R-12	BS9430 F0539	IP240R-12	BS9430 F0544	IP7800G	BS9430 F0846
to	BS9430 F0543	IP240R-15	BS9430 F0544	to	BS9430 F0850
IP140R-15	BS9430 F0539	IP240R-5	BS9430 F0544	IP7805ACK	BS9430 F0552
to	BS9430 F0543	IP250AK	BS9430 F0600	IP7805ACR	BS9430 F0559
IP140R-5	BS9430 F0539	IP250K	BS9430 F0593	IP7805AK	BS9430 F0546
to	BS9430 F0543	BS9493 F0090	BS9493 F0090	to	BS9430 F0550
IP150AK	BS9430 F0595	BS9493 F0144	BS9493 F0144	IP7805AR	BS9430 F0553
to	BS9430 F0599	IP2842J	BS9493 F0158	to	BS9430 F0557
IP150K	BS9430 F0588	IP2843J	BS9493 F0165	IP7805CK	BS9430 F0538
to	BS9430 F0592	IP317AG	BS9430 F0790	IP7805CR	BS9430 F0545
IP1524BJ	BS9493 F0085	IP317AK	BS9430 F0426	IP7805K	BS9430 F0532
to	BS9493 F0089	IP317AR	BS9430 F0433	to	BS9430 F0536
IP1526AJ	BS9493 F0139	IP317G	BS9430 F0776	IP7805R	BS9430 F0539
to	BS9493 F0143	IP317K	BS9430 F0398	to	BS9430 F0543
IP1842J	BS9493 F0153	IP317MAH	BS9430 F0482	IP7812ACK	BS9430 F0552
to	BS9493 F0157	IP317MAR	BS9430 F0489	IP7812ACR	BS9430 F0559
IP1842J/AJ series	BS9493 F0153	IP317MH	BS9430 F0454	IP7812AK	BS9430 F0546
to	BS9493 F0159	IP317MR	BS9430 F0461	to	BS9430 F0550
IP1843J	BS9493 F0160	IP317R	BS9430 F0405	IP7812AR	BS9430 F0553
to	BS9493 F0164	IP337AG	BS9430 F0818	to	BS9430 F0557
IP1843J/AJ series	BS9493 F0160	IP337AHVG	BS9430 F0825	IP7812CK	BS9430 F0538
to	BS9493 F0166	IP337AHVK	BS9430 F0706	IP7812CR	BS9430 F0545
IP217AG	BS9430 F0789	IP337AHVR	BS9430 F0713	IP7812K	BS9430 F0532
IP217AK	BS9430 F0425	IP337AK	BS9430 F0692	to	BS9430 F0536
IP217AR	BS9430 F0432	IP337AR	BS9430 F0699	IP7812R	BS9430 F0539
IP217G	BS9430 F0775	IP337G	BS9430 F0804	to	BS9430 F0543
IP217K	BS9430 F0397	IP337HVG	BS9430 F0811	IP7815ACK	BS9430 F0552
IP217MAH	BS9430 F0481	IP337HVK	BS9430 F0678	IP7815ACR	BS9430 F0559
IP217MAR	BS9430 F0488	IP337HVR	BS9430 F0685	IP7815AK	BS9430 F0546
IP217MH	BS9430 F0453	IP337K	BS9430 F0664	to	BS9430 F0550
IP217MR	BS9430 F0460	IP337MAH	BS9430 F0748	IP7815AR	BS9430 F0553
IP217R	BS9430 F0404	IP337MAHVB	BS9430 F0762	to	BS9430 F0557
IP237AG	BS9430 F0817	IP337MAHVR	BS9430 F0769	IP7815CK	BS9430 F0538
IP237AHVG	BS9430 F0824	IP337MAR	BS9430 F0755	IP7815CR	BS9430 F0545
IP237AHVK	BS9430 F0705	IP337MH	BS9430 F0720	IP7815K	BS9430 F0532
IP237AHVR	BS9430 F0712	IP337MHVB	BS9430 F0734	to	BS9430 F0536
IP237AK	BS9430 F0691	IP337MHVR	BS9430 F0741	IP7815R	BS9430 F0539
IP237AR	BS9430 F0698	IP337MR	BS9430 F0727	to	BS9430 F0543
IP237G	BS9430 F0803	IP337R	BS9430 F0671	IP78M05ACH	BS9430 F0580
IP237HVG	BS9430 F0810	IP338AK	BS9430 F0531	IP78M05ACR	BS9430 F0587
IP237HVK	BS9430 F0677	IP338K	BS9430 F0524	IP78M05AH	BS9430 F0574
IP237HVR	BS9430 F0684	IP340AK-12	BS9430 F0552	to	BS9430 F0578
IP237K	BS9430 F0663	IP340AK-15	BS9430 F0552	IP78M05AR	BS9430 F0581
IP237MAH	BS9430 F0747	IP340AK-5	BS9430 F0552	to	BS9430 F0585
IP237MAHVB	BS9430 F0761	IP340AR-12	BS9430 F0559	IP78M05CH	BS9430 F0566
IP237MAHVR	BS9430 F0768	IP340AR-15	BS9430 F0559	IP78M05CR	BS9430 F0573
IP237MAR	BS9430 F0754	IP340AR-5	BS9430 F0559	IP78M05H	BS9430 F0560
IP237MH	BS9430 F0719	IP340K-12	BS9430 F0538	to	BS9430 F0564
IP237MHVB	BS9430 F0733	IP340K-15	BS9430 F0538	IP78M05R	BS9430 F0567
IP237MHVR	BS9430 F0740	IP340K-5	BS9430 F0538	to	BS9430 F0571
IP237MR	BS9430 F0726	IP340MAH-12	BS9430 F0580	IP78M12ACH	BS9430 F0580
IP237R	BS9430 F0670	IP340MAH-15	BS9430 F0580	IP78M12ACR	BS9430 F0587
IP238AK	BS9430 F0530	IP340MAH-5	BS9430 F0580	IP78M12AH	BS9430 F0574
IP238K	BS9430 F0523	IP340MAR-12	BS9430 F0587	to	BS9430 F0578
IP240AK-12	BS9430 F0551	IP340MAR-15	BS9430 F0587	IP78M12AR	BS9430 F0581
IP240AK-15	BS9430 F0551	IP340MAR-5	BS9430 F0587	to	BS9430 F0585
IP240AK-5	BS9430 F0551	IP340MH-12	BS9430 F0566	IP78M12CH	BS9430 F0566
IP240AR-12	BS9430 F0558	IP340MH-15	BS9430 F0566	IP78M12CR	BS9430 F0573
IP240AR-15	BS9430 F0558	IP340MH-5	BS9430 F0566	IP78M12H	BS9430 F0560
IP240AR-5	BS9430 F0558	IP340MR-12	BS9430 F0573	to	BS9430 F0564
IP240K-12	BS9430 F0537	IP340MR-15	BS9430 F0573	IP78M12R	BS9430 F0567
IP240K-15	BS9430 F0537	IP340MR-5	BS9430 F0573	to	BS9430 F0571
IP240K-5	BS9430 F0537	IP340R-12	BS9430 F0545	IP78M15ACH	BS9430 F0580
IP240MAH-12	BS9430 F0579	IP340R-15	BS9430 F0545	IP78M15ACR	BS9430 F0587
IP240MAH-15	BS9430 F0579	IP340R-5	BS9430 F0545	IP78M15AH	BS9430 F0574
IP240MAH-5	BS9430 F0579	IP350AK	BS9430 F0601	to	BS9430 F0578
IP240MAR-12	BS9430 F0586	IP350K	BS9430 F0594	IP78M15AR	BS9430 F0581

LJTPQ 00RT 23-21	BS9520 G0001	LTT series (Mark 27)	BS9520 G0001	MD82C59A	BS9490 F8170
LJTPQ 00RT 23-32	BS9520 G0001	LVRB10	BS9450 F0002	MD82C59A-5	BS9490 F8170
LJTPQ 00RT 23-34	BS9520 G0001	LVRB11	BS9450 F0002	MD82C82	BS9490 F8171
LJTPQ 00RT 23-35	BS9520 G0001	LVRB12	BS9450 F0002	MD82C83H	BS9490 F8172
LJTPQ 00RT 23-36	BS9520 G0001	LVRB13	BS9450 F0002	MD82C84A	BS9490 F8173
LJTPQ 00RT 23-53	BS9520 G0001	LVRB14	BS9450 F0002	MD82C86H-5	BS9490 F8174
LJTPQ 00RT 23-55	BS9520 G0001	LVRB15	BS9450 F0002	MD82C87H-5	BS9490 F8175
LJTPQ 00RT 23-97	BS9520 G0001	LVRB16	BS9450 F0002	MD82C88	BS9490 F8176
LJTPQ 00RT 23-99	BS9520 G0001	LVRB2	BS9450 F0002	MD82C89	BS9490 F8177
LJTPQ 00RT 25-04	BS9520 G0001	LVRB3	BS9450 F0002	MDM series	BS9523 F0002
LJTPQ 00RT 25-11	BS9520 G0001	LVRB4	BS9450 F0002	ME series	BS9073 F0021
LJTPQ 00RT 25-19	BS9520 G0001	LVRB5	BS9450 F0002	Micronector 200	BS9525 F0033
LJTPQ 00RT 25-20	BS9520 G0001	LVRB6	BS9450 F0002	ML10410 series	BS9351 F0004
LJTPQ 00RT 25-24	BS9520 G0001	LVRB7	BS9450 F0002	ML10411	BS9351 F0004
LJTPQ 00RT 25-29	BS9520 G0001	LVRB8	BS9450 F0002	ML10412	BS9351 F0004
LJTPQ 00RT 25-35	BS9520 G0001	LVRB9	BS9450 F0002	ML10413	BS9351 F0004
LJTPQ 00RT 25-37	BS9520 G0001	Lxx-x series	BS9450 F0001	ML10420 series	BS9351 F0005
LJTPQ 00RT 25-43	BS9520 G0001			ML10421	BS9351 F0005
LJTPQ 00RT 25-46	BS9520 G0001			ML10422	BS9351 F0005
LJTPQ 00RT 25-61	BS9520 G0001			ML10423	BS9351 F0005
LJTPQ 00RT C6163	BS9522 F0029			ML17237-10	BS9351 F0003
LJT series	BS9520 G0001			ML17310-M2	BS9323 F0005
	BS9522 F0029			to	BS9323 F0008
LM120H-12	BS9430 F0091	M04-1	BS9450 F0001	ML17310-M3	BS9323 F0005
to	BS9430 F0095	M04-3	BS9450 F0001	to	BS9323 F0008
LM120H-15	BS9430 F0091	M05-1	BS9450 F0001	ML17310-M4	BS9323 F0005
to	BS9430 F0095	M05-5	BS9450 F0001	to	BS9323 F0008
LM120H-5	BS9430 F0091	M06-1	BS9450 F0001	ML17320-M2	BS9323 F0005
to	BS9430 F0095	M06-3	BS9450 F0001	to	BS9323 F0008
LM137H	BS9430 F0386	M06-5	BS9450 F0001	ML17320-M3	BS9323 F0005
to	BS9430 F0388	M07-1	BS9450 F0001	to	BS9323 F0008
LM137K	BS9430 F0389	M07-5	BS9450 F0001	ML17320-M4	BS9323 F0005
to	BS9430 F0391	M08-1	BS9450 F0001	to	BS9323 F0008
LM140AK-12	BS9430 F0105	M08-3	BS9450 F0001	ML17320-M4	BS9323 F0005
to	BS9430 F0109	M08-5	BS9450 F0001	to	BS9323 F0008
LM140AK-15	BS9430 F0105	M09-1	BS9450 F0001	ML17330-12	BS9323 F0012
to	BS9430 F0109	M09-5	BS9450 F0001	ML17330-M2	BS9323 F0005
LM140AK-5	BS9430 F0105	M10-1	BS9450 F0001	to	BS9323 F0008
to	BS9430 F0109	M10-3	BS9450 F0001	ML17330-M3	BS9323 F0005
LM140K-12	BS9430 F0100	M10-5	BS9450 F0001	to	BS9323 F0008
to	BS9430 F0104	M11-1	BS9450 F0001	ML17330-M4	BS9323 F0005
LM140K-15	BS9430 F0100	M11-5	BS9450 F0001	to	BS9323 F0008
to	BS9430 F0104	M12-1	BS9450 F0001	ML17340-M2	BS9323 F0005
LM140K-5	BS9430 F0100	M12-3	BS9450 F0001	to	BS9323 F0008
to	BS9430 F0104	M12-5	BS9450 F0001	ML17340-M3	BS9323 F0005
LM140LAH	BS9430 F0110	M13-1	BS9450 F0001	to	BS9323 F0008
	BS9430 F0110	M13-5	BS9450 F0001	ML17340-M4	BS9323 F0005
	BS9430 F0111	M14-1	BS9450 F0001	to	BS9323 F0008
	BS9430 F0111	M14-3	BS9450 F0001	ML17350-M2	BS9323 F0005
	BS9430 F0111	M14-5	BS9450 F0001	to	BS9323 F0008
	BS9430 F0111	M15-1	BS9450 F0001	ML17350-M3	BS9323 F0005
	BS9430 F0111	M15-5	BS9450 F0001	to	BS9323 F0008
	BS9430 F0111	M16-1	BS9450 F0001	ML17370-M1	BS9323 F0005
	BS9430 F0111	M16-3	BS9450 F0001	to	BS9323 F0008
	BS9430 F0111	M16-5	BS9450 F0001	ML17370-M2	BS9323 F0005
	BS9430 F0111	M17-1	BS9450 F0001	to	BS9323 F0008
	BS9430 F0111	M17-5	BS9450 F0001	ML17380-M1	BS9323 F0005
	BS9430 F0111	M18-1	BS9450 F0001	to	BS9323 F0008
	BS9430 F0111	M18-3	BS9450 F0001	ML17380-M2	BS9323 F0005
	BS9430 F0111	M18-5	BS9450 F0001	to	BS9323 F0008
	BS9430 F0111	M19-1	BS9450 F0001	ML40100	BS9320 F0003
	BS9430 F0111	M19-5	BS9450 F0001		BS9320 F0004
	BS9430 F0111	M20-1	BS9450 F0001		BS9321 F0035
	BS9430 F0111	M20-3	BS9450 F0001		BS9321 F0036
	BS9430 F0111	M20-5	BS9450 F0001		BS9320 F0003
	BS9430 F0111	M2B	BS9076 N0004		BS9320 F0004
	BS9430 F0111	MA4662	BS9329 F0008	ML40101	BS9321 F0035
	BS9430 F0111	MCD series	BS9524 F0013		BS9321 F0036
	BS9430 F0111	MCK series	BS9523 F0002		BS9320 F0003
	BS9430 F0111	MD1631	BS9400 G0086	ML40102	BS9320 F0004
	BS9430 F0111	MD1632	BS9400 G0087		BS9320 F0004
	BS9430 F0111	MD1634	BS9400 G0088		BS9321 F0035
	BS9430 F0111	MD80C86	BS9490 F8166		BS9321 F0036
	BS9430 F0111	MD80C86-2	BS9490 F8166	ML40105	BS9320 F0003
	BS9430 F0111	MD82C52	BS9490 F8167		BS9320 F0004
	BS9430 F0111	MD82C54	BS9490 F8168		BS9321 F0035
	BS9430 F0111	MD82C55A	BS9490 F8169		BS9321 F0036
	BS9430 F0111	MD82C55A-5	BS9490 F8169	ML40106	BS9320 F0003
	BS9430 F0111				BS9320 F0003

	BS9320 F0004		BS9321 F0041	ML4407 ODS 111	BS9329 F0001
	BS9321 F0035	ML 4100 series	BS9327 F0001	ML4407 ODS 30	BS9329 F0001
ML40107	BS9321 F0036		BS9328 F0001	ML4407 ODS 32	BS9329 F0001
	BS9320 F0003	ML4115A	BS9327 F0001	ML4407 ODS 34	BS9329 F0001
	BS9320 F0004	ML4116A	BS9327 F0001	ML4407 ODS 36	BS9329 F0001
	BS9321 F0035	ML4117A	BS9327 F0001	ML4407 ODS 43	BS9329 F0001
ML40110	BS9321 F0036	ML4118A	BS9327 F0001	ML4407 ODS 56	BS9329 F0001
	BS9320 F0003	ML4119A	BS9327 F0001	ML4407 ODS 91	BS9329 F0001
	BS9320 F0004	ML4120A	BS9327 F0001	ML4407 ODS 92	BS9329 F0001
	BS9321 F0035	ML4135B	BS9328 F0001	ML4407 ODS 98	BS9329 F0001
ML40111	BS9321 F0036	ML4136B	BS9328 F0001	ML4408 ODS 111	BS9329 F0001
	BS9320 F0003	ML4137B	BS9328 F0001	ML4408 ODS 30	BS9329 F0001
	BS9320 F0004	ML4138B	BS9328 F0001	ML4408 ODS 32	BS9329 F0001
	BS9321 F0035	ML4139B	BS9328 F0001	ML4408 ODS 34	BS9329 F0001
ML40115	BS9321 F0036	ML4140B	BS9328 F0001	ML4408 ODS 36	BS9329 F0001
	BS9320 F0003	ML4310	BS9307 F0002	ML4408 ODS 43	BS9329 F0001
	BS9320 F0004	ML4311	BS9307 F0002	ML4408 ODS 56	BS9329 F0001
	BS9321 F0035	ML4312	BS9307 F0002	ML4408 ODS 91	BS9329 F0001
ML40116	BS9321 F0036	ML4313	BS9307 F0002	ML4408 ODS 92	BS9329 F0001
	BS9320 F0003	ML4314	BS9307 F0002	ML4408 ODS 98	BS9329 F0001
	BS9320 F0004	ML4315	BS9307 F0002	ML4409 ODS 111	BS9329 F0001
	BS9321 F0035	ML4316	BS9307 F0002	ML4409 ODS 30	BS9329 F0001
ML40121	BS9321 F0036	ML4317	BS9307 F0002	ML4409 ODS 32	BS9329 F0001
	BS9320 F0003	ML4318	BS9307 F0002	ML4409 ODS 34	BS9329 F0001
	BS9320 F0004	ML4319	BS9307 F0002	ML4409 ODS 36	BS9329 F0001
	BS9321 F0035	ML4331	BS9307 F0003	ML4409 ODS 43	BS9329 F0001
ML40150	BS9321 F0036	ML4332	BS9307 F0003	ML4409 ODS 56	BS9329 F0001
	BS9320 F0003	ML4333	BS9307 F0003	ML4409 ODS 91	BS9329 F0001
	BS9320 F0004	ML4334	BS9307 F0003	ML4409 ODS 92	BS9329 F0001
	BS9321 F0035	ML4335	BS9307 F0003	ML4409 ODS 98	BS9329 F0001
ML40151	BS9321 F0036	ML4336	BS9307 F0003	ML440x series	BS9329 F0001
	BS9320 F0003	ML4337	BS9307 F0003	ML4500 series	BS9307 F0014
	BS9320 F0004	ML4338	BS9307 F0003	ML4512	BS9307 F0014
	BS9321 F0035	ML4339	BS9307 F0003	ML4513	BS9307 F0014
ML40152	BS9321 F0036	ML4340	BS9307 F0003	ML4514	BS9307 F0014
	BS9320 F0003	ML4341	BS9307 F0003	ML4515	BS9307 F0014
	BS9320 F0004	ML4342	BS9307 F0003	ML4516	BS9307 F0014
	BS9321 F0035	ML4343	BS9307 F0003	ML4517	BS9307 F0014
ML40155	BS9321 F0036	ML4351	BS9307 F0004	ML4518	BS9307 F0014
	BS9320 F0003	ML4352	BS9307 F0004	ML4519	BS9307 F0014
	BS9320 F0004	ML4353	BS9307 F0004	ML4520	BS9307 F0014
	BS9321 F0035	ML4354	BS9307 F0004	ML4532	BS9307 F0014
ML40156	BS9321 F0036	ML4355	BS9307 F0004	ML4533	BS9307 F0014
	BS9320 F0003	ML4356	BS9307 F0004	ML4534	BS9307 F0014
	BS9320 F0004	ML4357	BS9307 F0004	ML4535	BS9307 F0014
	BS9321 F0035	ML4358	BS9307 F0004	ML4536	BS9307 F0014
ML40157	BS9321 F0036	ML4359	BS9307 F0004	ML4537	BS9307 F0014
	BS9320 F0003	ML4360	BS9307 F0004	ML4538	BS9307 F0014
	BS9320 F0004	ML4361	BS9307 F0004	ML4539	BS9307 F0014
	BS9321 F0035	ML4362	BS9307 F0004	ML4540	BS9307 F0014
ML40160	BS9321 F0036	ML4363	BS9307 F0004	ML4552	BS9307 F0014
	BS9320 F0003	ML4364	BS9307 F0004	ML4553	BS9307 F0014
	BS9320 F0004	ML4365	BS9307 F0004	ML4554	BS9307 F0014
	BS9321 F0035	ML4404 ODS 111	BS9329 F0001	ML4555	BS9307 F0014
ML40161	BS9321 F0036	ML4404 ODS 30	BS9329 F0001	ML4556	BS9307 F0014
	BS9320 F0003	ML4404 ODS 32	BS9329 F0001	ML4557	BS9307 F0014
	BS9320 F0004	ML4404 ODS 36	BS9329 F0001	ML4558	BS9307 F0014
	BS9321 F0035	ML4404 ODS 91	BS9329 F0001	ML4559	BS9307 F0014
ML40162	BS9321 F0036	ML4404 ODS 92	BS9329 F0001	ML4560	BS9307 F0014
	BS9320 F0003	ML4405 ODS 111	BS9329 F0001	ML4572	BS9307 F0015
	BS9320 F0004	ML4405 ODS 30	BS9329 F0001	ML4573	BS9307 F0015
	BS9321 F0035	ML4405 ODS 32	BS9329 F0001	ML4574	BS9307 F0015
ML40163	BS9321 F0036	ML4405 ODS 36	BS9329 F0001	ML4575	BS9307 F0015
	BS9320 F0003	ML4405 ODS 91	BS9329 F0001	ML4576	BS9307 F0015
	BS9320 F0004	ML4405 ODS 92	BS9329 F0001	ML4577	BS9307 F0015
	BS9321 F0035	ML4406 ODS 111	BS9329 F0001	ML4578	BS9307 F0015
ML40171	BS9321 F0036	ML4406 ODS 30	BS9329 F0001	ML4579	BS9307 F0015
	BS9320 F0003	ML4406 ODS 32	BS9329 F0001	ML4580	BS9307 F0015
	BS9320 F0004	ML4406 ODS 34	BS9329 F0001	ML45xx series	BS9307 F0014
	BS9321 F0035	ML4406 ODS 36	BS9329 F0001	ML4603	BS9324 F0016
ML40597	BS9321 F0036	ML4406 ODS 43	BS9329 F0001	ML4604	BS9324 F0016
	BS9320 F0005	ML4406 ODS 56	BS9329 F0001	ML4605	BS9324 F0016
ML40597M	BS9321 F0040	ML4406 ODS 91	BS9329 F0001	ML4606	BS9324 F0016
	BS9320 F0005	ML4406 ODS 92	BS9329 F0001	ML4607	BS9324 F0016
	BS9321 F0040	ML4406 ODS 98	BS9329 F0001	ML4608	BS9324 F0016

ML4610	BS9324 F0002	ML4669 ODS 114C	BS9324 F0003	ML5710PX801	BS9323 F0004
ML4611	BS9324 F0002	ML4669 ODS 115	BS9324 F0003	ML5720C801	BS9323 F0004
ML4612	BS9324 F0002	ML4669 ODS 144K	BS9324 F0003	ML5720J801	BS9323 F0004
ML4613	BS9324 F0004	ML466x series	BS9324 F0003	ML5720LJ801	BS9323 F0004
ML4614	BS9324 F0002	ML4670 ODS 114	BS9324 F0005	ML5720PL801	BS9323 F0004
ML4615	BS9324 F0002	ML4670 ODS 115	BS9324 F0005	ML5720PX801	BS9323 F0004
ML4616	BS9324 F0004	ML4670 ODS 144C	BS9324 F0005	ML5720S801	BS9323 F0004
ML4617	BS9324 F0002	ML4670 ODS 144K	BS9324 F0005	ML5720X801	BS9323 F0004
ML4618	BS9324 F0002	ML4671 ODS 114	BS9324 F0003	ML5730C801	BS9323 F0004
ML4619	BS9324 F0002	ML4671 ODS 115	BS9324 F0003	ML5730J801	BS9323 F0004
ML4620	BS9324 F0004	ML4671 ODS 144C	BS9324 F0003	ML5730PL801	BS9323 F0004
ML4621	BS9324 F0004	ML4671 ODS 144K	BS9324 F0003	ML5730S801	BS9323 F0004
ML4622	BS9324 F0002	ML4672 ODS 114	BS9324 F0007	ML5730X801	BS9323 F0004
ML4623	BS9324 F0002	ML4672 ODS 115	BS9324 F0007	ML5740C802	BS9323 F0004
ML4624	BS9324 F0002	ML4672 ODS 144C	BS9324 F0007	ML5740PL802	BS9323 F0004
ML4625	BS9324 F0004	ML4672 ODS 144K	BS9324 F0007	ML5740S802	BS9323 F0004
ML4626	BS9324 F0004	ML4673 ODS 114	BS9324 F0007	ML5740X802	BS9323 F0004
ML4627	BS9324 F0002	ML4673 ODS 115	BS9324 F0007	ML-6500-401	BS9351 F0002
ML4628	BS9324 F0002	ML4673 ODS 144C	BS9324 F0007	ML-6500-403	BS9351 F0002
ML4629	BS9324 F0002	ML4673 ODS 144K	BS9324 F0007	ML-6500-405	BS9351 F0002
ML4630	BS9324 F0004	ML4674 ODS 114	BS9324 F0007	ML-6500-407	BS9351 F0002
ML4631	BS9324 F0004	ML4674 ODS 115	BS9324 F0007	ML-6500-409	BS9351 F0002
ML4640	BS9324 F0002	ML4674 ODS 144C	BS9324 F0007	ML-6500-411	BS9351 F0002
ML4641	BS9324 F0002	ML4674 ODS 144K	BS9324 F0007	ML-6500-413	BS9351 F0002
ML4642	BS9324 F0002	ML4800 series	BS9329 F0016	ML-6500-415	BS9351 F0002
ML4643	BS9324 F0002	ML48801A-ODS118	BS9329 F0016	ML-6500-417	BS9351 F0002
ML4644	BS9324 F0006	ML48801B-ODS138	BS9329 F0016	ML-6500-419	BS9351 F0002
ML4645	BS9324 F0006	ML48801C-ODS148	BS9329 F0016	ML-6500-421	BS9351 F0002
ML4646	BS9324 F0006	ML48801D-ODS275	BS9329 F0016	ML-6500-423	BS9351 F0002
ML4647	BS9324 F0006	ML48801E-ODS120	BS9329 F0016	ML-6500-425	BS9351 F0002
ML4648	BS9324 F0006	ML48802A-ODS118	BS9329 F0016	ML-6500-427	BS9351 F0002
ML4649	BS9324 F0006	ML48802B-ODS138	BS9329 F0016	ML-6500-429	BS9351 F0002
ML4650	BS9324 F0006	ML48802C-ODS148	BS9329 F0016	ML-6500-431	BS9351 F0002
ML4651	BS9324 F0006	ML48802D-ODS275	BS9329 F0016	ML-6500-433	BS9351 F0002
ML4652	BS9324 F0006	ML48802E-ODS120	BS9329 F0016	ML-6510-101	BS9351 F0002
ML4653	BS9324 F0006	ML48803A-ODS118	BS9329 F0016	ML-6510-103	BS9351 F0002
ML4654	BS9324 F0006	ML48803B-ODS138	BS9329 F0016	ML-6510-105	BS9351 F0002
ML4655	BS9324 F0006	ML48803C-ODS148	BS9329 F0016	ML-6510-107	BS9351 F0002
ML4660 ODS 114	BS9324 F0003	ML48803D-ODS275	BS9329 F0016	ML-6510-109	BS9351 F0002
ML4660 ODS 115	BS9324 F0003	ML48803E-ODS120	BS9329 F0016	ML-6510-111	BS9351 F0002
ML4660 ODS 144C	BS9324 F0003	ML48804A-ODS118	BS9329 F0016	ML-6510-113	BS9351 F0002
ML4660 ODS 144K	BS9324 F0003	ML48804B-ODS138	BS9329 F0016	ML-6510-115	BS9351 F0002
ML4661 ODS 114	BS9324 F0003	ML48804C-ODS148	BS9329 F0016	ML-6510-117	BS9351 F0002
ML4661 ODS 115	BS9324 F0003	ML48804D-ODS275	BS9329 F0016	ML-6510-119	BS9351 F0002
ML4661 ODS 144C	BS9324 F0003	ML48804E-ODS120	BS9329 F0016	ML-6510-121	BS9351 F0002
ML4661 ODS 144K	BS9324 F0003	ML48805A-ODS118	BS9329 F0016	ML-6510-123	BS9351 F0002
ML4662 ODS 114	BS9324 F0005	ML48805B-ODS138	BS9329 F0016	ML-6510-125	BS9351 F0002
ML4662 ODS 115	BS9324 F0005	ML48805C-ODS148	BS9329 F0016	ML-6510-127	BS9351 F0002
ML4662 ODS 144C	BS9324 F0005	ML48805D-ODS275	BS9329 F0016	ML-6510-129	BS9351 F0002
ML4662 ODS 144K	BS9324 F0005	ML48805E-ODS120	BS9329 F0016	ML-6510-131	BS9351 F0002
ML4663 ODS 114	BS9324 F0003	ML48806A-ODS118	BS9329 F0016	ML-6510-133	BS9351 F0002
ML4663 ODS 115	BS9324 F0003	ML48806B-ODS138	BS9329 F0016	ML-6510-135	BS9351 F0002
ML4663 ODS 144C	BS9324 F0003	ML48806C-ODS148	BS9329 F0016	ML-6510-137	BS9351 F0002
ML4663 ODS 144K	BS9324 F0003	ML48806D-ODS275	BS9329 F0016	ML-6510-139	BS9351 F0002
ML4664 ODS 114	BS9324 F0005	ML48806E-ODS120	BS9329 F0016	ML-6510-201	BS9351 F0002
ML4664 ODS 115	BS9324 F0005	ML4921	BS9325 F0007	ML-6510-203	BS9351 F0002
ML4664 ODS 144C	BS9324 F0005	ML4922	BS9325 F0007	ML-6510-205	BS9351 F0002
ML4664 ODS 144K	BS9324 F0005	ML4923	BS9325 F0007	ML-6510-207	BS9351 F0002
ML4665 ODS 114	BS9324 F0003	ML4931	BS9325 F0007	ML-6510-209	BS9351 F0002
ML4665 ODS 115	BS9324 F0003	ML4932	BS9325 F0007	ML-6510-211	BS9351 F0002
ML4665 ODS 144C	BS9324 F0003	ML4933	BS9325 F0007	ML-6510-213	BS9351 F0002
ML4665 ODS 144K	BS9324 F0003	ML4941	BS9325 F0007	ML-6510-215	BS9351 F0002
ML4666 ODS 114	BS9324 F0005	ML4942	BS9325 F0007	ML-6510-217	BS9351 F0002
ML4666 ODS 115	BS9324 F0005	ML4943	BS9325 F0007	ML-6510-219	BS9351 F0002
ML4666 ODS 144C	BS9324 F0005	ML4951	BS9325 F0007	ML-6510-221	BS9351 F0002
ML4666 ODS 144K	BS9324 F0005	ML4952	BS9325 F0007	ML-6510-223	BS9351 F0002
ML4667 ODS 114	BS9324 F0003	ML4953	BS9325 F0007	ML-6510-225	BS9351 F0002
ML4667 ODS 115	BS9324 F0003	ML4961	BS9325 F0007	ML-6510-227	BS9351 F0002
ML4667 ODS 144C	BS9324 F0003	ML4962	BS9325 F0007	ML-6510-229	BS9351 F0002
ML4667 ODS 144K	BS9324 F0003	ML4963	BS9325 F0007	ML-6510-231	BS9351 F0002
ML4668 ODS 114	BS9324 F0005	ML4971	BS9325 F0007	ML-6510-233	BS9351 F0002
ML4668 ODS 115	BS9324 F0005	ML4972	BS9325 F0007	ML-6510-235	BS9351 F0002
ML4668 ODS 144C	BS9324 F0005	ML4973	BS9325 F0007	ML-6510-237	BS9351 F0002
ML4668 ODS 144K	BS9324 F0005	ML5534	BS9400 G0171	ML-6510-239	BS9351 F0002
ML4669 ODS 114	BS9324 F0003	ML5710LJ801	BS9323 F0004	ML-6510-241	BS9351 F0002

TPT350CM	BS9121 F0004	TV 00R 17-99	BS9520 G0003	TV 06RX 21-27	BS9520 G0003
TPT901A	BS9121 F0004	TV 00R 19-11	BS9520 G0003	TV 06RX 21-35	BS9520 G0003
TPT901AM	BS9121 F0004	TV 00R 19-18	BS9520 G0003	TV 06RX 21-39	BS9520 G0003
TPT901B	BS9121 F0004	TV 00R 19-28	BS9520 G0003	TV 06RX 21-41	BS9520 G0003
TPT901C	BS9121 F0004	TV 00R 19-30	BS9520 G0003	TV 06RX 21-75	BS9520 G0003
TPT901CM	BS9121 F0004	TV 00R 19-32	BS9520 G0003	TV 06RX 23-21	BS9520 G0003
TPT902A	BS9121 F0004	TV 00R 19-35	BS9520 G0003	TV 06RX 23-32	BS9520 G0003
TPT902AM	BS9121 F0004	TV 00R 19-45	BS9520 G0003	TV 06RX 23-34	BS9520 G0003
TPT902B	BS9121 F0004	TV 00R 21-11	BS9520 G0003	TV 06RX 23-35	BS9520 G0003
TPT902BM	BS9121 F0004	TV 00R 21-16	BS9520 G0003	TV 06RX 23-36	BS9520 G0003
TPT902C	BS9121 F0004	TV 00R 21-24	BS9520 G0003	TV 06RX 23-53	BS9520 G0003
TPT921A	BS9121 F0004	TV 00R 21-25	BS9520 G0003	TV 06RX 23-55	BS9520 G0003
TPT921AM	BS9121 F0004	TV 00R 21-27	BS9520 G0003	TV 06RX 23-97	BS9520 G0003
TPT921B	BS9121 F0004	TV 00R 21-35	BS9520 G0003	TV 06RX 23-99	BS9520 G0003
TPT921BM	BS9121 F0004	TV 00R 21-39	BS9520 G0003	TV 06RX 25-04	BS9520 G0003
TPT950A	BS9121 F0004	TV 00R 21-41	BS9520 G0003	TV 06RX 25-11	BS9520 G0003
TPT950AM	BS9121 F0004	TV 00R 21-75	BS9520 G0003	TV 06RX 25-19	BS9520 G0003
TPT950B	BS9121 F0004	TV 00R 23-21	BS9520 G0003	TV 06RX 25-20	BS9520 G0003
TPT950BM	BS9121 F0004	TV 00R 23-32	BS9520 G0003	TV 06RX 25-24	BS9520 G0003
TPT950C	BS9121 F0004	TV 00R 23-34	BS9520 G0003	TV 06RX 25-29	BS9520 G0003
TPT950CM	BS9121 F0004	TV 00R 23-35	BS9520 G0003	TV 06RX 25-35	BS9520 G0003
TPT950D	BS9121 F0004	TV 00R 23-36	BS9520 G0003	TV 06RX 25-37	BS9520 G0003
TPT950DM	BS9121 F0004	TV 00R 23-53	BS9520 G0003	TV 06RX 25-43	BS9520 G0003
TPT970A	BS9121 F0004	TV 00R 23-55	BS9520 G0003	TV 06RX 25-46	BS9520 G0003
TPT970AM	BS9121 F0004	TV 00R 23-97	BS9520 G0003	TV 06RX 25-61	BS9520 G0003
TPT970B	BS9121 F0004	TV 00R 23-99	BS9520 G0003	TV 06RX 25-64	BS9520 G0003
TPT970BM	BS9121 F0004	TV 00R 25-04	BS9520 G0003	TV07 Rx 11-01	BS9520 G0003
TPT970C	BS9121 F0004	TV 00R 25-11	BS9520 G0003	TV07 Rx 11-02	BS9520 G0003
TPT970CM	BS9121 F0004	TV 00R 25-19	BS9520 G0003	TV07 Rx 11-04	BS9520 G0003
TPT970D	BS9121 F0004	TV 00R 25-20	BS9520 G0003	TV07 Rx 11-05	BS9520 G0003
TPT970DM	BS9121 F0004	TV 00R 25-24	BS9520 G0003	TV07 Rx 11-35	BS9520 G0003
TPT989A	BS9121 F0004	TV 00R 25-29	BS9520 G0003	TV07 Rx 11-98	BS9520 G0003
TPT989AM	BS9121 F0004	TV 00R 25-35	BS9520 G0003	TV07 Rx 11-99	BS9520 G0003
TPT989B	BS9121 F0004	TV 00R 25-37	BS9520 G0003	TV07 Rx 13-03	BS9520 G0003
TPT989BM	BS9121 F0004	TV 00R 25-43	BS9520 G0003	TV07 Rx 13-04	BS9520 G0003
TPT series	BS9121 F0004	TV 00R 25-46	BS9520 G0003	TV07 Rx 13-08	BS9520 G0003
TT 00RT	BS9520 G0002	TV 00R 25-61	BS9520 G0003	TV07 Rx 13-35	BS9520 G0003
TT 02RE	BS9520 G0002	TV 00R 25-64	BS9520 G0003	TV07 Rx 13-98	BS9520 G0003
TT 03RE	BS9520 G0002	TV 06RX 11-01	BS9520 G0003	TV07 Rx 15-04	BS9520 G0003
TT 06RT	BS9520 G0002	TV 06RX 11-02	BS9520 G0003	TV07 Rx 15-05	BS9520 G0003
TT 07RT	BS9520 G0002	TV 06RX 11-04	BS9520 G0003	TV07 Rx 15-15	BS9520 G0003
TT 066RT	BS9520 G0002	TV 06RX 11-05	BS9520 G0003	TV07 Rx 15-18	BS9520 G0003
TT P02RE	BS9520 G0002	TV 06RX 11-35	BS9520 G0003	TV07 Rx 15-19	BS9520 G0003
TT P03RE	BS9520 G0002	TV 06RX 11-98	BS9520 G0003	TV07 Rx 15-35	BS9520 G0003
TT PQ00RT	BS9520 G0002	TV 06RX 11-99	BS9520 G0003	TV07 Rx 15-97	BS9520 G0003
TT series	BS9520 G0002	TV 06RX 13-03	BS9520 G0003	TV07 Rx 17-06	BS9520 G0003
TUT/7/H	BS9093 F0019	TV 06RX 13-04	BS9520 G0003	TV07 Rx 17-08	BS9520 G0003
TUT/7/PT	BS9093 F0019	TV 06RX 13-08	BS9520 G0003	TV07 Rx 17-13	BS9520 G0003
TUT/7/V	BS9093 F0019	TV 06RX 13-35	BS9520 G0003	TV07 Rx 17-20	BS9520 G0003
TUT series	BS9093 F0019	TV 06RX 13-98	BS9520 G0003	TV07 Rx 17-26	BS9520 G0003
TV 00R 11-01	BS9520 G0003	TV 06RX 15-04	BS9520 G0003	TV07 Rx 17-35	BS9520 G0003
TV 00R 11-02	BS9520 G0003	TV 06RX 15-05	BS9520 G0003	TV07 Rx 17-99	BS9520 G0003
TV 00R 11-04	BS9520 G0003	TV 06RX 15-15	BS9520 G0003	TV07 Rx 19-11	BS9520 G0003
TV 00R 11-05	BS9520 G0003	TV 06RX 15-18	BS9520 G0003	TV07 Rx 19-18	BS9520 G0003
TV 00R 11-35	BS9520 G0003	TV 06RX 15-19	BS9520 G0003	TV07 Rx 19-28	BS9520 G0003
TV 00R 11-98	BS9520 G0003	TV 06RX 15-35	BS9520 G0003	TV07 Rx 19-30	BS9520 G0003
TV 00R 11-99	BS9520 G0003	TV 06RX 15-97	BS9520 G0003	TV07 Rx 19-32	BS9520 G0003
TV 00R 13-03	BS9520 G0003	TV 06RX 17-06	BS9520 G0003	TV07 Rx 19-35	BS9520 G0003
TV 00R 13-04	BS9520 G0003	TV 06RX 17-08	BS9520 G0003	TV07 Rx 19-45	BS9520 G0003
TV 00R 13-08	BS9520 G0003	TV 06RX 17-13	BS9520 G0003	TV07 Rx 21-11	BS9520 G0003
TV 00R 13-35	BS9520 G0003	TV 06RX 17-20	BS9520 G0003	TV07 Rx 21-16	BS9520 G0003
TV 00R 13-98	BS9520 G0003	TV 06RX 17-26	BS9520 G0003	TV07 Rx 21-24	BS9520 G0003
TV 00R 15-04	BS9520 G0003	TV 06RX 17-35	BS9520 G0003	TV07 Rx 21-25	BS9520 G0003
TV 00R 15-05	BS9520 G0003	TV 06RX 17-99	BS9520 G0003	TV07 Rx 21-27	BS9520 G0003
TV 00R 15-15	BS9520 G0003	TV 06RX 19-11	BS9520 G0003	TV07 Rx 21-35	BS9520 G0003
TV 00R 15-18	BS9520 G0003	TV 06RX 19-18	BS9520 G0003	TV07 Rx 21-39	BS9520 G0003
TV 00R 15-19	BS9520 G0003	TV 06RX 19-28	BS9520 G0003	TV07 Rx 21-41	BS9520 G0003
TV 00R 15-35	BS9520 G0003	TV 06RX 19-30	BS9520 G0003	TV07 Rx 21-75	BS9520 G0003
TV 00R 15-97	BS9520 G0003	TV 06RX 19-32	BS9520 G0003	TV07 Rx 23-21	BS9520 G0003
TV 00R 17-06	BS9520 G0003	TV 06RX 19-35	BS9520 G0003	TV07 Rx 23-32	BS9520 G0003
TV 00R 17-08	BS9520 G0003	TV 06RX 19-45	BS9520 G0003	TV07 Rx 23-34	BS9520 G0003
TV 00R 17-13	BS9520 G0003	TV 06RX 21-11	BS9520 G0003	TV07 Rx 23-35	BS9520 G0003
TV 00R 17-20	BS9520 G0003	TV 06RX 21-16	BS9520 G0003	TV07 Rx 23-36	BS9520 G0003
TV 00R 17-26	BS9520 G0003	TV 06RX 21-24	BS9520 G0003	TV07 Rx 23-53	BS9520 G0003
TV 00R 17-35	BS9520 G0003	TV 06RX 21-25	BS9520 G0003	TV07 Rx 23-55	BS9520 G0003

TV07 Rx 23-97	BS9520 G0003	VTT 06	BS9520 G0003	Z6B 150	BS9305 F0081
TV07 Rx 23-99	BS9520 G0003	VTT 06 (T83)	BS9520 G0021	Z6B 16	BS9305 F0081
TV07 Rx 25-04	BS9520 G0003	VTT 07	BS9520 G0003	Z6B 160	BS9305 F0081
TV07 Rx 25-11	BS9520 G0003	VTT 07 (T83)	BS9520 G0021	Z6B 18	BS9305 F0081
TV07 Rx 25-19	BS9520 G0003	VTT P00	BS9520 G0003	Z6B 180	BS9305 F0081
TV07 Rx 25-20	BS9520 G0003	VTT P00 (T83)	BS9520 G0021	Z6B 20	BS9305 F0081
TV07 Rx 25-24	BS9520 G0003	VTT series	BS9520 G0003	Z6B 200	BS9305 F0081
TV07 Rx 25-29	BS9520 G0003			Z6B 22	BS9305 F0081
TV07 Rx 25-35	BS9520 G0003			Z6B 24	BS9305 F0081
TV07 Rx 25-37	BS9520 G0003			Z6B 27	BS9305 F0081
TV07 Rx 25-43	BS9520 G0003			Z6B 3.6	BS9305 F0081
TV07 Rx 25-46	BS9520 G0003	XA	BS9151 F0009	Z6B 3.9	BS9305 F0081
TV07 Rx 25-61	BS9520 G0003			Z6B 30	BS9305 F0081
TV07 Rx 25-64	BS9520 G0003			Z6B 33	BS9305 F0081
TV series	BS9520 G0003			Z6B 36	BS9305 F0081
Type 24	BS9522 F0039	Z2B	BS9300 C0405	Z6B 39	BS9305 F0081
Type 25	BS9153 F0002	to	BS9300 C0429	Z6B 4.3	BS9305 F0081
Type 26	BS9153 F0002	to	BS9300 C0841	Z6B 4.7	BS9305 F0081
Type 47S relays	BS9153 F0002	Z3	BS9300 C0849	Z6B 43	BS9305 F0081
Type 51S relays	BS9153 F0003	to	BS9300 C0199	Z6B 47	BS9305 F0081
Type C114	BS9153 F0004	Z3B 10	BS9300 C0276	Z6B 5.1	BS9305 F0081
	QC160101	Z3B 100	BS9305 F0079	Z6B 5.6	BS9305 F0081
	GB0002	Z3B 11	BS9305 F0079	Z6B 51	BS9305 F0081
Type C134	QC160101	Z3B 110	BS9305 F0079	Z6B 56	BS9305 F0081
	GB0003	Z3B 12	BS9305 F0079	Z6B 6.2	BS9305 F0081
Type C412	QC160101	Z3B 120	BS9305 F0079	Z6B 6.8	BS9305 F0081
	GB0001	Z3B 13	BS9305 F0079	Z6B 62	BS9305 F0081
Type C432	QC160101	Z3B 130	BS9305 F0079	Z6B 68	BS9305 F0081
	GB0004	Z3B 15	BS9305 F0079	Z6B 7.5	BS9305 F0081
Type F	BS9073 F0014	Z3B 150	BS9305 F0079	Z6B 75	BS9305 F0081
	BS9073 N0034	Z3B 16	BS9305 F0079	Z6B 8.2	BS9305 F0081
Type R	BS9073 F0015	Z3B 160	BS9305 F0079	Z6B 82	BS9305 F0081
	BS9073 F0031	Z3B 18	BS9305 F0079	Z6B 9.1	BS9305 F0081
Type SXA/PXA	BS9525 F0043	Z3B 180	BS9305 F0079	Z6B 91	BS9305 F0081
		Z3B 20	BS9305 F0079	Z6B series	BS9305 F0081
		Z3B 200	BS9305 F0079	Z7B 10	BS9305 F0080
		Z3B 22	BS9305 F0079	Z7B 100	BS9305 F0080
		Z3B 24	BS9305 F0079	Z7B 11	BS9305 F0080
UCS 5801H	BS9493 F0273	Z3B 27	BS9305 F0079	Z7B 110	BS9305 F0080
ULS2003H	BS9493 F0269	Z3B 3.0	BS9305 F0079	Z7B 12	BS9305 F0080
ULS2004H	BS9493 F0270	Z3B 3.3	BS9305 F0079	Z7B 120	BS9305 F0080
ULS2803H	BS9493 F0271	Z3B 3.6	BS9305 F0079	Z7B 13	BS9305 F0080
ULS2804H	BS9493 F0272	Z3B 3.9	BS9305 F0079	Z7B 130	BS9305 F0080
uT411024	BS9400 G0185	Z3B 30	BS9305 F0079	Z7B 15	BS9305 F0080
uT58128W/-35	BS9400 G0179	Z3B 33	BS9305 F0079	Z7B 150	BS9305 F0080
uT58128W/-45	BS9400 G0179	Z3B 36	BS9305 F0079	Z7B 16	BS9305 F0080
uT58128W/-55	BS9400 G0179	Z3B 39	BS9305 F0079	Z7B 160	BS9305 F0080
uT6832	BS9400 G0178	Z3B 4.3	BS9305 F0079	Z7B 18	BS9305 F0080
		Z3B 4.7	BS9305 F0079	Z7B 180	BS9305 F0080
		Z3B 43	BS9305 F0079	Z7B 20	BS9305 F0080
		Z3B 47	BS9305 F0079	Z7B 200	BS9305 F0080
VK20BA	BS9075 F0002	Z3B 5.1	BS9305 F0079	Z7B 22	BS9305 F0080
	BS9075 N0023	Z3B 5.6	BS9305 F0079	Z7B 24	BS9305 F0080
VK20BY	BS9075 F0002	Z3B 51	BS9305 F0079	Z7B 27	BS9305 F0080
	BS9075 N0024	Z3B 56	BS9305 F0079	Z7B 3.6	BS9305 F0080
VK21BA	BS9075 F0002	Z3B 6.2	BS9305 F0079	Z7B 3.9	BS9305 F0080
VK21BY	BS9075 F0002	Z3B 6.8	BS9305 F0079	Z7B 30	BS9305 F0080
VK30BA	BS9075 F0002	Z3B 62	BS9305 F0079	Z7B 33	BS9305 F0080
	BS9075 N0023	Z3B 68	BS9305 F0079	Z7B 36	BS9305 F0080
VK30BY	BS9075 F0002	Z3B 7.5	BS9305 F0079	Z7B 39	BS9305 F0080
	BS9075 N0024	Z3B 75	BS9305 F0079	Z7B 4.3	BS9305 F0080
VRB10	BS9450 F0002	Z3B 8.2	BS9305 F0079	Z7B 4.7	BS9305 F0080
VRB11	BS9450 F0002	Z3B 82	BS9305 F0079	Z7B 43	BS9305 F0080
VRB12	BS9450 F0002	Z3B 9.1	BS9305 F0079	Z7B 47	BS9305 F0080
VRB13	BS9450 F0002	Z3B 91	BS9305 F0079	Z7B 5.1	BS9305 F0080
VRB14	BS9450 F0002	Z3B series	BS9305 F0079	Z7B 5.6	BS9305 F0080
VRB15	BS9450 F0002	Z6B 10	BS9305 F0081	Z7B 51	BS9305 F0080
VRB16	BS9450 F0002	Z6B 100	BS9305 F0081	Z7B 56	BS9305 F0080
VRB2	BS9450 F0002	Z6B 11	BS9305 F0081	Z7B 6.2	BS9305 F0080
VRB3	BS9450 F0002	Z6B 110	BS9305 F0081	Z7B 6.8	BS9305 F0080
VRB4	BS9450 F0002	Z6B 12	BS9305 F0081	Z7B 62	BS9305 F0080
VRB5	BS9450 F0002	Z6B 120	BS9305 F0081	Z7B 68	BS9305 F0080
VRB6	BS9450 F0002	Z6B 13	BS9305 F0081	Z7B 7.5	BS9305 F0080
VRB7	BS9450 F0002	Z6B 130	BS9305 F0081	Z7B 75	BS9305 F0080
VRB8	BS9450 F0002			Z7B 8.2	BS9305 F0080
VRB9	BS9450 F0002				

14 PART 2, Section 4 BS9000/CECC Specification Equivalent List

This section has been retained to assist in cases of obsolescence. It has therefore not been updated but “sealed” as last published in hard copy format i.e. PD 9002: 1/1999.

The following equivalents list is published by BSI for the information of manufacturers and users of electronic components.

It is updated in April and October each year by BSI Standards.

Copies of all BS 9000 and CECC specifications referred to in the list are obtainable from :

Sales and Customer Services
British Standards Institution
389 Chiswick High Road
LONDON
W4 4AL
Telephone : 020-8996-9001
Fax : 020-8996-7001
www.bsi-global.com

Legend:

- 1) No approvals; specification being proposed for withdrawal
- 2) Specification due for review
- 3) To be proposed for obsolescence
- 4) There are still some approvals to associated detail specifications
- 5) CECC equivalent in preparation
- 6) Under consideration by CECC Subcommittee
- 7) The approval figures given in this column are for guidance only
- 8) No demand from industry; no action being taken
- 9) Figures given in this column relate to product approval certificates issued. The figures given in parenthesis () indicate the number of approved companies at generic level

BS 9000				CECC			
SPECIFICATION	EXTANT APPROVALS 9)	TITLE	STATUS	EQUIVALENT SPECIFICATION	APPROVALS HELD 7)	DUAL NO AS BS	RESPONSIBLE COMMITTEE
BS 9000 Pt 1	N/A	Specification of general procedures	Obsolescent	CECC 00 111/III	N/A	Yes	L/9
BS 9000 Pt 2	N/A	National implementation of the CECC system	Current	N/A	N/A	N/A	L/9
BS 9000 Pt 3	N/A	National implementation of the IECQ system	Current	N/A	N/A	N/A	L/9
BS 9000 Pt 4	167	The approval of an organization	Obsolescent	EN 100114/I	183	Yes	L/9
BS 9000 Pt 5	281	Qualification Approval and conformance testing procedures	Obsolescent	CECC 00 107	385	Yes	L/9
BS 9000 Pt 6	76	Capability Approval procedures	Obsolescent	CECC 00 107/III	61	Yes	L/9
BS 9000 Pt 7	N/A	Lot formation, release procedures and certified test records	Obsolescent	CECC 00 109 CECC 00 114/II	N/A	Yes Yes	L/9
Sect 8.1	N/A	Specifications under QA	Withdrawn	CECC 00 111/III	N/A	Yes	L/9
Sect 8.2	N/A	Specifications under CA	Withdrawn	CECC 00 111/III	N/A	Yes	L/9
BS 9010	0	Transmitter Tubes (GS)	Withdrawn	CECC 45 000	0	Yes	EPL/39
BS 9011	0	Transmitter Tubes (Rules for DS)	Withdrawn	CECC 45 003	0	No	EPL/39
BS 9014	0	Thyratron Tubes (GS)	Withdrawn	None 8)		N/A	EPL/39
BS 9015	0	Counter/Indicator Tubes (GS)	Withdrawn	CECC 46 000	0	Yes	EPL/39
BS 9016	0	Indicator Tubes (Rules for DS)	Withdrawn	CECC 46 001	0	Yes	EPL/39
BS 9018	0	Thyratron Tubes (Rules for DS)	Withdrawn	None 8)		N/A	EPL/39
BS 9020	0	Corona Stabiliser Tubes (GS)	Withdrawn	None 8)		N/A	EPL/39
BS 9021	0	Corona Stabiliser Tubes (Rules for DS)	Withdrawn	None 8)		N/A	EPL/39
BS 9023	0	Flash Tubes (GS)	Withdrawn	None 8)		N/A	EPL/39
BS 9024	0	Flash Tubes (Rules for DS)	Withdrawn	None 8)		N/A	EPL/39
BS 9025	0	Travelling Wave Amplifier Tubes (GS)	Withdrawn	EN 135000	0	Yes	EPL/39
BS 9026	0	Low Noise Signal Amplifier Tubes (Rules for DS)	Withdrawn	None 8)		N/A	EPL/39
BS 9027	0	Travelling Wave Power Tubes (Rules for DS)	Withdrawn	EN 135001	0	Yes	EPL/39
BS 9028	0	Travelling Wave Tubes (Rules for DS)	Withdrawn	None 8)		N/A	EPL/39
BS 9030	4 (1)	Magnetrons of Assessed Quality (GS)	Obsolescent	EN 136000	6 (1)	Yes	EPL/39

BS 9000/CECC Specification Equivalent List

BS 9000				CECC			
SPECIFICATION	EXTANT APPROVALS 9)	TITLE	STATUS	EQUIVALENT SPECIFICATION	APPROVALS HELD 7)	DUAL NO AS BS	RESPONSIBLE COMMITTEE
BS 9031	2	Magnetrons (Rules for DS) - Full level	Obsolescent	EN 136001	6	Yes	EPL/39
BS 9032	2	Magnetrons (Rules for DS) - Basic level	Obsolescent	EN 136001	6	Yes	EPL/39
BS 9035	0	Klystrons (GS)	Withdrawn	None 8)		N/A	EPL/39
BS 9036	0	Amplifier Klystrons (BDS)	Withdrawn	None 8)		N/A	EPL/39
BS 9037	0	Oscillator Klystrons (BDS)	Withdrawn	None 8)		N/A	EPL/39
BS 9040 2)	1 (1)	Microwave Switching Tubes (GS)	Current	None 8)		N/A	EPL/39
BS 9041 2)	1	TR Tubes (Rules for DS)	Current	None 8)		N/A	EPL/39
BS 9042	0	ATR Tubes (Rules for DS)	Withdrawn	None 8)		N/A	EPL/39
BS 9043	0	Pre-TR Tubes (Rules for DS)	Withdrawn	None 8)		N/A	EPL/39
BS 9044	0	Passive Protection Tubes (Rules for DS)	Withdrawn	None 8)		N/A	EPL/39
BS 9045	0	Microwave Noise Generators (GS)	Withdrawn	None 8)		N/A	EPL/39
BS 9046	0	Microwave Noise Generators (BDS)	Withdrawn	None 8)		N/A	EPL/39
BS 9047	0	Glow Modulator Tubes (GS)	Withdrawn	None 8)		N/A	EPL/39
BS 9048	0	Glow Modulator Tubes (Rules for DS)	Withdrawn	None 8)		N/A	EPL/39
BS 9050	6 (1)	Cathode Ray Tubes (GS)	Obsolescent	EN 111000	12 (1)	Yes	EPL/39
BS 9051	0	Precision CR Tubes (Rules for DS)	Withdrawn	None 8)		N/A	EPL/39
BS 9052	0	Storage display CR Tubes (Rules for DS)	Withdrawn	None 8)		N/A	EPL/39
BS 9053	0	Professional CR Tubes (Rules for DS)	Withdrawn	None 8)		N/A	EPL/39
BS 9054	6	Cathode Ray Tubes (Rules for DS)	Obsolescent	EN 111001	12	Yes	EPL/39
BS 9055	0	Surge Arrester Tubes (GS)	Withdrawn	None 8)		N/A	EPL/39
BS 9056	0	Surge Arrester Tubes (BDS)	Withdrawn	None 8)		N/A	EPL/39
BS 9060	0	Camera Tubes (GS)	Withdrawn	EN 113000	0	Yes	EPL/39
BS 9061	0	Vidicon Tubes (Rules for DS)	Withdrawn	None 8)		N/A	EPL/39
BS 9062	0 (0)	Microwave Passives (GS) (QA and CA)	Current 1)	None 8)		N/A	EPL/39
BS 9063	0	Circulators/Isolators (BDS)	Withdrawn	None 8)		N/A	EPL/39
BS 9064	0	Circulators/Isolators (BDS) (Capability Approval)	Current 1)	None 8)		N/A	EPL/39

BS 9000/CECC Specification Equivalent List

BS 9000				CECC			
SPECIFICATION	EXTANT APPROVALS 9)	TITLE	STATUS	EQUIVALENT SPECIFICATION	APPROVALS HELD 7)	DUAL NO AS BS	RESPONSIBLE COMMITTEE
BS 9070 Sects 1 & 2	4) 33 (11)	Fixed Capacitors (GS) Principles and Mandatory Procedures	Obsolescent	EN 130000	38 (11)	Yes	EPL/40
Sect 3	4) 7	Tantalum Electrolytic Capacitors (SS)	Obsolescent	EN 130200	10	Yes	EPL/40
Sect 4	4) 3	Polystyrene Dielectric Capacitors (SS)	Obsolescent	CECC 30 900	1	Yes	EPL/40
Sect 5	4) 14	Ceramic Dielectric Capacitors (SS)	Obsolescent	CECC 30 600 30 700	CECC 6 12	Yes	EPL/40
Sect 6	4) 4	Plastic Film Dielectric Capacitors (SS)	Obsolescent	CECC 30 400 CECC 30 500 31 200	CECC 0 7 1	Yes	EPL/40
Sect 7	1	Mica Dielectric Capacitors (SS)	Obsolescent	CECC 31 300	1	Yes	EPL/40
Sect 8	0	Aluminium Electrolytic Capacitors (SS)	Withdrawn	CECC 30 300	0	Yes	EPL/40
Sect 9	0	Vitreous Dielectric Capacitors	Withdrawn	None 8)		N/A	EPL/40
Sect 10	0	Tantalum Electrolytic Cap. Modules (SS)	Withdrawn	None 8)		N/A	EPL/40
BS 9090	3 (1)	Variable Capacitors (GS)	Obsolescent	EN 134000	0	Yes	EPL/40
BS 9093	3	Variable Capacitors (Rules for DS)	Obsolescent	EN 134101	0	Yes	EPL/40
BS 9100	1 (1)	Custom Built Capacitors (GS)	Obsolescent	EN 130000/A1	0	Yes	EPL/40
BS 9110	0	Fixed Resistors (GS)	Withdrawn	EN 140000	102 (4)	Yes	EPL/40
BS 9111	0	Fixed Resistors (Rules for DS)	Withdrawn	EN 140 401 140 101 102 EN 140 201 140 203 302	EN 4 EN 75 EN 0 EN 0 CECC 16 40 5 2	Yes Yes Yes Yes Yes Yes	EPL/40
BS 9114	0	Fixed Wirewound Resistors (Rules for DS)	Withdrawn	None 8)		N/A	EPL/40
BS 9120	2) 15 (3)	Radio Interference Suppression Filters (GS)	Current	CECC 33 000	0	Awaiting publication of EN 133 000	EPL/40

BS 9000/CECC Specification Equivalent List

BS 9000				CECC				
SPECIFICATION	EXTANT APPROVALS 9)	TITLE	STATUS	EQUIVALENT SPECIFICATION	APPROVALS HELD 7)	DUAL NO AS BS	RESPONSIBLE COMMITTEE	
BS 9121	2)	15	Radio Interference Suppression Filters (BDS)	Current	EN 133 101 5)	0	N/A	EPL/40
BS 9125	2)	6 (1)	Custom Built Radio Interference Suppression Filters (GS)	Current	CECC 33 000	0	Awaiting publication of EN 133 000	EPL/40
BS 9130		1 (1)	Potentiometers (GS)	Obsolescent	CECC 41 000	3 (1)	Yes	EPL/40
BS 9131		0	Potentiometers (Rules for DS)	Obsolescent	EN 141101	0	Yes	EPL/40
BS 9133		1	Potentiometers (Rules for DS)	Obsolescent	CECC 41 301 CECC 41 302	3 0	Yes Yes	EPL/40
BS 9150	4)	10 (3)	Relays (GS)	Obsolescent	EN 116000	7 (2)	Yes	EPL/94
BS 9151		10	Relays (Rules for DS)	Obsolescent	EN 116205/206/ 207	7	Yes	EPL/94
BS 9152		0	Reed Relays (Rules for DS)	Withdrawn	None 5)		N/A	EPL/94
BS 9153		0	Telecom Relays (Rules for DS)	Obsolescent	EN 116501	0	Yes	EPL/94
BS 9200		0	Reed Contact Units (GS)	Withdrawn	EN 119 000	0	Yes	EPL/94
BS 9210		3 (3)	RF Connectors (GS)	Obsolescent	CECC 22 000	9 (1)	Yes	EPL/46
BS 9215	1)	0 (1)	Custom Built RF Connector/Cable Assemblies (GS)	Obsolescent	EN 60996-1		N/A	EPL/46
BS 9220		1 (1)	Rigid Waveguide Tubing (GS)	Current	None 8)		Yes	EPL/46
BS 9230		0	Fibre Optic Connectors (DS)	Withdrawn	EN 186000	0	Yes	EPL/86
BS 9300		13 (3)	Semiconductor Devices (GS)	Obsolescent	50 000 Series	176 (4)	Yes	EPL/47
BS 9301		0	Semiconductor Devices (DS)	Withdrawn	EN 150001	10	Yes	EPL/47
BS 9305	4)	2	Voltage Regulator Diodes (Rules for DS)	Withdrawn	CECC 50 005	3	No	EPL/47
BS 9306		0	Transient Suppressor Diodes (Rules for DS)	Withdrawn	EN 150015	0	Yes	EPL/47
BS 9307		0	Variable Capacitance Diodes (Rules for DS)	Withdrawn	EN 150016	0	Yes	EPL/47
BS 9320	1)	0	Microwave Mixer Diodes (CW) (Rules for DS)	Obsolescent	None 8)		N/A	EPL/47
BS 9321	1)	0	Microwave Mixer Diodes (Pulse) (Rules for DS)	Obsolescent	None 8)		N/A	EPL/47
BS 9322	1)	0	Microwave Detector Diodes (Rules for DS)	Obsolescent	None 8)		N/A	EPL/47
BS 9323	1)	0	PIN Microwave Passive Diodes (Rules for DS)	Obsolescent	None 8)		N/A	EPL/47

BS 9000/CECC Specification Equivalent List

BS 9000				CECC			RESPONSIBLE COMMITTEE	
SPECIFICATION	EXTANT APPROVALS 9)	TITLE	STATUS	EQUIVALENT SPECIFICATION	APPROVALS HELD 7)	DUAL NO AS BS		
BS 9324	1)	0	PIN Microwave Active Diodes (Rules for DS)	Obsolete	None 8)		N/A	EPL/47
BS 9325	1)	0	Microwave Gunn Oscillators (CW) (Rules for DS)	Obsolete	None 8)		N/A	EPL/47
BS 9326		0	Microwave Gunn Oscillators (Pulse) (Rules for DS)	Withdrawn	None 8)		N/A	EPL/47
BS 9327		0	Microwave Avalanche Oscillators (CW) (Rules for DS)	Withdrawn	None 8)		N/A	EPL/47
BS 9328		0	Microwave Avalanche Oscillators (Pulse) (Rules for DS)1	Withdrawn	None 8)		N/A	EPL/47
BS 9329		0	Varactor Diodes (Rules for DS)	Withdrawn	None 8)		N/A	EPL/47
BS 9331		0	Medium Current Rectifier Diodes (1-100 ampere rating) Rules for DS)	Withdrawn	EN 150009	2	Yes	EPL/47
BS 9333		0	Controlled Avalanche Rectifier Diodes (Rules for DS)	Withdrawn	EN 150008	0	Yes	EPL/47
BS 9340		0	Low Current General Purpose Thyristors (up to 3 ampere rating) (Rules for DS)	Withdrawn	EN 150010	0	Yes	EPL/47
BS 9341	4)	2	Medium Current General Purpose Thyristors (1-100 ampere rating) (Rules for DS)	Withdrawn	EN 150011	0	Yes	EPL/47
BS 9343		0	Triode Thyristors (Triacs) (Rules for DS)	Withdrawn	EN 150011	0	Yes	EPL/47
BS 9350	1)	0	Microwave Transistors (Rules for DS)	Obsolete	None 8)		N/A	EPL/47
BS 9351		0	Microwave Semiconductor Switches (Rules for DS)	Withdrawn	None 8)		N/A	EPL/47
BS 9352		0	Microwave Full Effect Transistors (Rules for DS)	Withdrawn	EN 150012	5	Yes	EPL/47
BS 9361		0	High Frequency, Low Power Transistors (Rules for DS)	Withdrawn	CECC 50 002	74	No	EPL/47
BS 9362		0	High Power Transistors for Linear Transistors (Rules for DS)	Withdrawn	EN 150003 & EN 150007	24 + 1	Yes	EPL/47
BS 9364		0	Switching Transistors (Rules for DS)	Withdrawn	EN 150004	57	Yes	EPL/47
BS 9365	4)	9	Transistors (General) (Rules for DS)	Withdrawn	CECC 50 002 EN 150003/004 /007	74 + 24 + 57 + 1	Yes	EPL/47
BS 9370	1)	0	Custom Built LED & Infra-red displays (GS)	Current	EN 120 000	0(1)	Yes	EPL/47
BS 9400		99 (5)	Integrated Circuits (GS)	Obsolete	EN 190 000	2 (2)	Yes	EPL/47
BS 9401		0	TTL Digital Gate Circuits (Rules for DS)	Withdrawn	EN 190 100	2	Yes	EPL/47
BS 9402		0	DTL Digital Gate Circuits (Rules for DS)	Withdrawn	EN 190 100	2	Yes	EPL/47
BS 9403		0	TTL Digital Inverter Circuits (Rules for DS)	Withdrawn	EN 190 100	2	Yes	EPL/47
BS 9404		0	DTL Digital Inverter Circuits (Rules for DS)	Withdrawn	EN 190 100	2	Yes	EPL/47

BS 9000/CECC Specification Equivalent List

BS 9000				CECC			RESPONSIBLE COMMITTEE
SPECIFICATION	EXTANT APPROVALS 9)	TITLE	STATUS	EQUIVALENT SPECIFICATION	APPROVALS HELD 7)	DUAL NO AS BS	
BS 9405	0	TTL Digital Gate Circuits (Rules for DS)	Withdrawn	EN 190 100	2	Yes	EPL/47
BS 9420	0	TTL Digital Bistable Circuits (Rules for DS)	Withdrawn	EN 190 100	2	Yes	EPL/47
BS 9430	20	Voltage Regulators ICs (Rules for DS)	Obsolescent	CECC 90 201	0	Yes	EPL/47
BS 9440	0	Complex Digital Bipolar Circuits (Rules for DS)	Withdrawn	CECC 90 200	0	Yes	EPL/47
BS 9442	0	TTL Binary Counter Circuits (Rules for DS)	Withdrawn	CECC 90 200	0	Yes	EPL/47
BS 9443	0	TTL Binary Memory Circuits (Rules for DS)	Withdrawn	CECC 90 200	0	Yes	EPL/47
BS 9444	0	Insulated Gate Shift Registers (Rules for DS)	Withdrawn	CECC 90 200	0	Yes	EPL/47
BS 9450	11 (11)	Custom Built Hybrid Circuits (GS)	Obsolescent	CECC 63 000 190 000	EN 4 (4) 2 (2)	Yes Yes	EPL/47
BS 9460	0	Differential Operational Amplifiers (Rules for DS)	Obsolescent	None		N/A	EPL/47
BS 9461	0	Differential Comparator Amplifiers (Rules for DS)	Withdrawn	CECC 90 003	0	No	EPL/47
BS 9470	0	Microwave Amplifiers (Rules for DS)	Withdrawn	None		N/A	EPL/47
BS 9490	3) 15	Digital Integrated Circuits (Rules for DS)	Current	CECC 90 200	0	Yes	EPL/47
BS 9491	3) 0	Analogue Integrated Circuits (Rules for DS)	Current	CECC 90 200	0	Yes	EPL/47
BS 9492	0	Capacitively Coupled ICs (Rules for DS)	Withdrawn	EN 190 100	2	Yes	EPL/47
BS 9493	3) 21	Mixed Digital/Analogue ICs (Rules for DS)	Current	None		N/A	EPL/47
BS 9494	0	Programmable read-only memories (Rules for DS)	Withdrawn	EN 190 100	2	Yes	EPL/47
BS 9500	0 (0)	Sockets for Plug-in Components (GS)	Withdrawn	None		N/A	EPL/48
BS 9501	0	In-line/pin-grid Array Sockets (Rules for DS)	Withdrawn	None		N/A	EPL/48
BS 9520	62 (16)	Connectors LF (Rules for DS)	Obsolescent	None		N/A	EPL/48
BS 9521	3) 0 (1)	Removable Contacts for LF Connectors (DS)	Current	None		N/A	EPL/48
BS 9522	26	Circular Connectors (Rules for DS)	Obsolescent	EN 175200	9 (5)	Yes	EPL/48
BS 9523	5	Rectangular Connectors with Integral Metal Housings (Rules for DS)	Obsolescent	EN 175300	0	Yes	EPL/48
BS 9524	2	Rectangular Connectors with Moulded Bodies (Rules for DS)	Obsolescent	EN 175300	0	Yes	EPL/48
BS 9525	21	Printed Board Connectors (Rules for DS)	Obsolescent	EN 175100	1 (3)	Yes	EPL/48
BS 9526	0	Edge Socket Connectors (Rules for DS)	Withdrawn	None	0	N/A	EPL/48
BS 9530	0 (2)	Cable Fitting Accessories (GS)	Withdrawn	None 6)		N/A	EPL/48
BS 9550	0 (0)	Cable Assemblies/Wiring Harness (GS)	Withdrawn	None		N/A	EPL/48

BS 9000/CECC Specification Equivalent List

BS 9000				CECC			RESPONSIBLE COMMITTEE
SPECIFICATION	EXTANT APPROVALS 9)	TITLE	STATUS	EQUIVALENT SPECIFICATION	APPROVALS HELD 7)	DUAL NO AS BS	
BS 9561	0 (2)	Lever Switches (GS and Rules for DS)	Obsolescent	CECC 96 200	3	Yes	EPL/48
BS 9562	0 (1)	Microswitches (GS and Rules for DS)	Withdrawn	CECC 96 300	0	Yes	EPL/48
BS 9563	8 (3)	Rotary Switches (GS and Rules for DS)	Obsolescent	CECC 96 100	8	Yes	EPL/48
BS 9564	1 (1)	Push-button Switches (GS and Rules for DS)	Obsolescent	CECC 96 400	0	Yes	EPL/48
BS 9565	0 (0)	PCB Mounted Programming Switches (DS)	Withdrawn	None		N/A	EPL/48
BS 9566	0	PCB Mounted Switches (Rules for DS)	Obsolescent	None		N/A	EPL/48
BS 9572	3 (1)	Lever switches	Obsolescent	CECC 96 200	3	Yes	EPL/48
BS 9574	2 (1)	Miniature Lever Switches	Obsolescent	CECC 96 200	3	Yes	EPL/48
BS 9600	0 (0)	Piezoelectric Crystal Filters (GS)	Obsolescent	EN 167000	0	Yes	EPL/49
BS 9602	0	Piezoelectric Crystal Filters (BDS)	Withdrawn	EN 167101	0	Yes	EPL/49
BS 9610	0 (0)	Quartz Crystal Units (GS)	Obsolescent	EN 168000	0 (0)	Yes	EPL/49
BS 9611	0	Solder-sealed Quartz Crystal Units (Rules for DS)	Withdrawn	EN 168201	0	Yes	EPL/49
BS 9612	4) 1	Welded Seal Quartz Crystal Units (Rules for DS)	Withdrawn	EN 168201	0	Yes	EPL/49
BS 9616	0	Quartz Crystal Units (BDS)	Withdrawn	EN 168201	0	Yes	EPL/49
BS 9617	2	Quartz Crystal Units (Rules for DS)	Obsolescent	EN 168201	0	Yes	EPL/49
BS 9618	0	Custom Built Quartz Crystal Units (GS)	Withdrawn	EN 168000	0 (0)	Yes	EPL/49
BS 9620	10 (1)	Quartz Crystal Oscillators (GS)	Obsolescent	EN 169000	0	Yes	EPL/49
BS 9621	0	Simple Packaged Crystal Oscillators (SPXO) (Rules for DS)	Withdrawn	EN 169101	0	Yes	EPL/49
BS 9623	0	Temperature Compensated Crystal Oscillators (TXCO) (Rules for DS)	Withdrawn	Draft EN 196101 5)	8	N/A	EPL/49
BS 9624	0	Oven Temperature Controlled Crystal Oscillators (OXCO) (Rules for DS)	Withdrawn	Draft EN 196101 5)	8	N/A	EPL/49
BS 9625	10	Quartz Crystal Oscillators (BDS)	Obsolescent	EN 169101	0	Yes	EPL/49
BS 9720	4 (4)	Custom Built Transformers and Inductors (GS)	Obsolescent	EN 126000	0 (0)	Will be prepared when EN 126 000 amended	EPL/51
BS 9721	2) 1	Custom Built Signal Transformers (SS) (CA)	Current	Draft EN 126100 5)		N/A	EPL/51
BS 9727	2) 1	Custom Built Power Transformers (SS) (CA)	Current	Draft EN 126200 5)		N/A	EPL/51

BS 9000/CECC Specification Equivalent List

BS 9000				CECC			
SPECIFICATION	EXTANT APPROVALS 9)	TITLE	STATUS	EQUIVALENT SPECIFICATION	APPROVALS HELD 7)	DUAL NO AS BS	RESPONSIBLE COMMITTEE
BS 9730	0	Custom Built Power Transformers (SMPS) (SS) (CA)	Withdrawn	Draft EN 126300 5)		N/A	EPL/51
BS 9733 2)	4	Custom Built Pulse Transformers (SS) (CA)	Current	Draft EN 126400 5)		N/A	EPL/51
BS 9734 2)	3	Pulse Transformers (SS)	Current	None 8)		N/A	EPL/51
BS 9741 2)	2	Custom Built Inductors (SS)	Current	Draft 26 500 5) CECC		N/A	EPL/51
BS 9750	7 (3)	RF Fixed Inductors (GS)	Obsolescent	EN 129000	0 (1)	Yes	EPL/51
BS 9751 2)	7	RF Fixed Inductors (BDS)	Current	None 8)		N/A	EPL/51
BS 9752	0	RF Fixed SM Inductors (BDS)	Withdrawn	EN 129101	0	Yes	EPL/51
BS 9753 2)	1	RF Variable Inductors (SS) (CA)	Current	None 8)		N/A	EPL/51
BS 9760	170 (57)	Printed Wiring Boards (GS)	Obsolescent	EN 123000	181 (55)	Yes	EPL/52
BS 9761	44	Printed Wiring Boards (SS)	Obsolescent	EN 123300	57	Yes	EPL/52
BS 9762	50	Printed Wiring Boards (SS)	Obsolescent	EN 123200	57	Yes	EPL/52
BS 9763	52	Printed Wiring Boards (SS)	Obsolescent	EN 123100	57	Yes	EPL/52
BS 9764	9	Printed Wiring Boards (SS)	Obsolescent	EN 123400	5	Yes	EPL/52
BS 9765	9	Printed Wiring Boards (SS)	Obsolescent	EN 123 500	5	Yes	EPL/52
BS 9766	6	Printed Wiring Boards (SS)	Obsolescent	None 6)		N/A	EPL/52
BS 9800	0	Modular Electronic Networks (GS)	Withdrawn	EN 16 0000	0 (0)	Yes	EPL/500

15 PART 3 Section 1 APPROVED SERVICES

15.1 PART 3 Section 1 Test Laboratory Abstracts

API Microelectronics Limited

Environmental Test Services

15.1.1 API Microelectronics Limited

Issued in conjunction with Certificate Number: 3019/T

CONDITIONING TESTS

	BS 2011	IEC 60068/BS EN 60068
ENVIRONMENTAL		
Cold	Aa/Ab	IEC 60068-2-1 / BS EN 60068-2-1
Dry Heat	Ba/Bb	IEC 60068-2-2 / BS EN 60068-2-2
Damp Heat – Steady state	Ca/Cb	IEC 60068-2-3 / IEC 60068-2-56
Damp Heat – Cyclic state	Db	IEC 60068-2-30 / BS EN 60068-2-30
Rapid change of temperature	Na/Nb/Nc	IEC 60068-2-14 / BS EN 60068-2-14
Low Temperature/Low pressure	Z/AM	IEC 60068-2-40 / BS EN 60068-2-40
High temperature/Low pressure	Z/BM	IEC 60068-2-41 / BS EN 60068-2-41
Altitude/Low air pressure	M	IEC 60068-2-13 / BS EN 60068-2-13

MECHANICAL

Vibration (sinusoidal) Cold/Vibration	Z/AFc,	IEC 60068-2-50 / BS EN 60068-2-50
Vibration (sinusoidal) Dry heat/vibration	Z/BFc	IEC 60068-2-51 / BS EN 60068-2-51
Vibration, sinusoidal	Fc	IEC 60068-2-6 / BS EN 60068-2-6
Vibration, random, high band high/med/low	Fd/Fda/Fdb/Fdc	IEC 60068-2-34 / IEC 60068-2-37 BS EN 60068-2-64
Shock, Bump	Ea	IEC 60068-2-27 / BS EN 60068-2-27
Acceleration	Ga	IEC 60068-2-7 / BS EN 60068-2-7

ADDITIONAL FACILITIES/CAPABILITIES

Salt Mist	Ka	IEC 60068-2-11 / BS EN 60068-2-11
Salt Corrosion	Kb	IEC 60068-2-52 / BS EN 60068-2-52
Solderability	Ta/Tb	IEC 60068-2-20 / BS EN 60068-2-44
Robustness of terminations	U	IEC 60068-2-21 / BS EN 60068-2-21
Resistance to solvents/Contaminating Fluids	XA	IEC 60068-2-45 / BS EN 60068-2-45

ELECTRICAL

Electrical & electronic equipment; Cabled distribution systems, capacitors, controls, relays, wired assemblies. Fuses; miniature & sub-miniature. Plugs & sockets; appliance connectors. Switchgear & control gear; electromechanical control devices, miniature circuit-breaker boards, power transformers & power supply units, switches, isolators & terminal blocks. Wiring & accessories; connection units, switches, switches-electronic.

ENVIRONMENTAL ENGINEERING

(CLIMATIC / DYNAMIC)

Climatic (combined parameters) – non-explosive items, high temperature/low pressure. Climatic (combined parameters) low temperature/low pressure. Climatic (sequential parameters) low temperature/high humidity. Climatic (single parameters) - non-explosive items, contaminating fluids, high humidity, high/low temperature, low pressure (atmospheric), salt, temperature change/thermal shock. Dynamic, acceleration, steady state, bump, shock, vibration, random, vibration, sinusoidal; Vibration/temperature (high/low)

MEASUREMENT CAPABILITIES

DC Voltage, AC Voltage, DC Current , AC Current, DC Resistance, Capacitance, Inductance, Dissipation factor, Conductance, Frequency.

COMPONENTS/DEVICES TESTED

Aerospace equipment, Electrical/Electronic components, Electrical/Electronic connectors, Electrical/Electronic products, Electro-mechanical devices, Micro-electronic circuits and components, Missile Components, Motor vehicle accessories and components.

15.1.2 Environmental Test Services Ltd

Issued in conjunction with certificate: 3046/T

CONDITIONING TESTS

	BS 2011	Other (For Reference only)
ENVIRONMENTAL		
High Temperature	B)
Low Temperature	A)Def-Stan 07-55
Change of Temperature	N)MIL-STD 810E MIL-STD 883E
High Humidity	Ca, Cb, Db)
Composite Temperature/Humidity	Z/AD	
High Pressure	-	Def-Stan 07-55
Low Pressure	M	MIL-STD 810E
Water, drops	Ra	Def-Stan 07-55, MIL-STD 108E
Water, ingress	Rb	BS EN 60529
Water Immersion	Rc	BS EN 60529, MIL-STD 810E
Salt Mist	Ka	MIL-STD 810E, Def-Stan 07-55
Salt Corrosion	Kb	Def-Stan 07-55
MECHANICAL		
Vibration, sinusoidal *	Fc	Def-Stan 07-55
Vibration, random *	Fd	MIL-STD 810E
Shock & Shock *	Ea	MIL-STD 810E, Def-Stan 07-55
Drop and Topple	Ec	MIL-STD 810E, Def-Stan 07-55
Free Fall	Ed	
ELECTRICAL		
Electrical Endurance	Electrical Conductivity	
Voltage Proof	Electrical Continuity	
Insulation Resistance	Contact Resistance	

* = Ambient temperature (25 °C) or Dynamically between the temperature ranges – 40 °C +125 °C

MEASUREMENT CAPABILITIES (Parameters)

DC Voltage, DC Current, AC Voltage, AC Current, DC Resistance, Time, Temperature, Force, Humidity, Barometric Pressure, Linear Dimensions. Mass.

ELECTRICAL PRODUCT TESTS

Aerospace Components, Circuit Breakers and Switches, Electrical/Electronic Components, Electrical/Electronic Connectors and Products, Electromechanical Devices, Enclosures for Electrical Equipment, Micro-electronic circuits and components, Missile Components, Plugs and Sockets (Electrical), Printed Circuit Boards, Quartz Crystal Oscillators, Optoelectronic & Liquid Crystal Devices.

ADDITIONAL FACILITIES/CAPABILITIES

Visual examination, Dust, Water immersion, Force, Mechanical Operations (connectors), Engaging/separating force (connectors). Batteries and Cells, Metallic and non-metallic coatings, Computers and Peripherals, Electrical Cables, Fasteners, Hoses, Pipes and Tubes, Indicating/recording Instruments, Insulation Materials (electrical) IT Equipment, Luminaries, Marine Equipment, Measuring Equipment, Motor Vehicle Accessories and Components, Office Equipment (Electrical), Ophthalmic Products (Optical), Optical Fibre, Packages and Packaging Material, Paints and Varnishes, Power Supplies (Electrical), Radar Equipment, Radio and TV Equipment, Satellites and Sub-assemblies, Security Devices and Alarms, Smoke Detectors, Sonar Equipment, Telecommunication Equipment, Transformers (Electrical), Weapons and Sub-assemblies.