

CONFIRMED
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**Detail specification for
fixed insulated
(unshielded) radio
frequency inductors —
Wire wound on ferrite,
iron dust or phenolic
cylindrical former —
Full assessment level**

UDC 621.318.43.092.5

Confirmed
December 2011

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Summary of pages

This document comprises a front cover, an inside front cover, pages i and ii, pages 1 to 13 and a back cover.

This standard has been updated (see copyright date) and may have had amendments incorporated. This will be indicated in the amendment table on the inside front cover.

Amendments issued since publication

Amd. No.	Date	Comments

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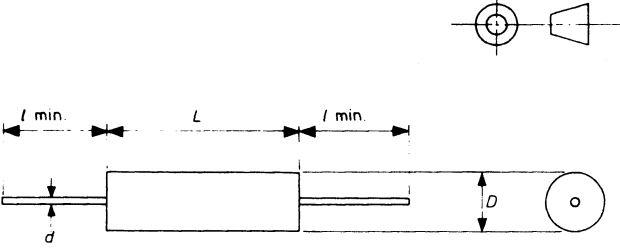
ELECTRONIC COMPONENTS OF ASSESSED QUALITY DETAIL SPECIFICATION IN ACCORDANCE WITH BS 9751:1979	MANUFACTURER'S TYPE NUMBER See PD 9002
Outline and dimensions. Third angle projection  For values of dimensions see Table 1 All dimensions in mm Marking information, see clause 2	For ordering information see clause 4 INDUCTORS RADIO FREQUENCY STYLE — INSULATED (UNSHIELDED) TYPICAL CONSTRUCTION: WIRE WOUND ON FERRITE, IRON DUST OR PHENOLIC CYLINDRICAL FORMER FULL ASSESSMENT

Table 1 — Dimensions and ratings

Pattern	Rated dissipation (W at 70 °C)	Isolation voltage V d.c. or a.c. peak	Dimensions					
			L max.	D max.	l min.	d min.	d nom.	d max.
A	0.16	700	7	2.7	25	0.45	0.50	0.55
B	0.20	700	9.9	4.2	25	0.55	0.65	0.70
C	0.20	700	10	3.9	25	0.55	0.60	0.66
D	0.20	700	10	4.5	25	0.55	0.60	0.66
E	0.25	700	12	5.6	25	0.55	0.65	0.70
F	0.33	700	25.5	8.0	25	0.65	0.70	0.77

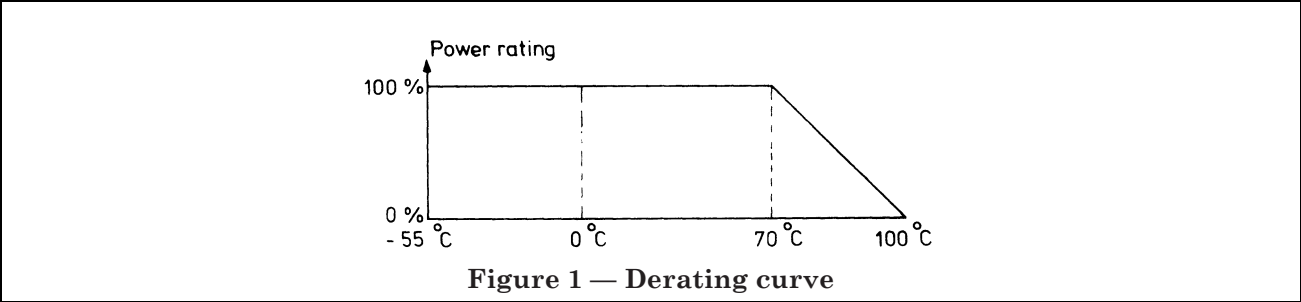
The range of values available in each pattern is given in PD 9002.

Refer to Qualified Products List PD 9002 for details of manufacturers approved to this specification

1 Ratings and characteristics

Inductance range:	The preferred values are those of the E12 series of BS 2488:1966 (IEC 63). Where the use of intermediate values is essential they should be chosen from the E24 series of that document
Standard selection tolerance:	± 10 %
Environmental classification:	55/100/21
Bump severity:	390 m/s²; 4 000 bumps total
Vibration severity:	10 Hz to 500 Hz: amplitude 0.75 mm or acceleration 98 m/s² (whichever is less severe); of 3 h duration in each of 2 planes one of which shall be parallel to the axis of winding
Low air pressure:	8.5 kPa (85 mbar)
Limits of change after 1 000 h endurance test:	
inductance	± 5 %
Q factor	)
	)
self resonant frequency	)
	)
d.c. resistance	)
Temperature coefficient of inductance:	0 ± 125 × 10 ⁻⁶ /°C over the range 20 °C to 70 °C

1.1 Derating. The inductors covered by this specification shall be derated in accordance with Figure 1.



2 Marking of the part and package

The marking of the part and package shall be in accordance with the requirements of 1.1.6 of BS 9750.

3 Related documents

- BS 2488, *Schedule of preferred numbers for the resistance of resistors and the capacitance of capacitors for telecommunication equipment.*
- BS 4849, *1,1,2- trichlorotrifluoroethane (R113).*
- BS 6001, *Sampling procedures and tables for inspection by attributes.*
- BS 9000, *General requirements for electronic components of assessed quality.*
- BS 9750, *Specification for fixed r.f. inductors of assessed quality: generic data and methods of test.*
- PD 9002, *BS 9000 Component selection guide.*