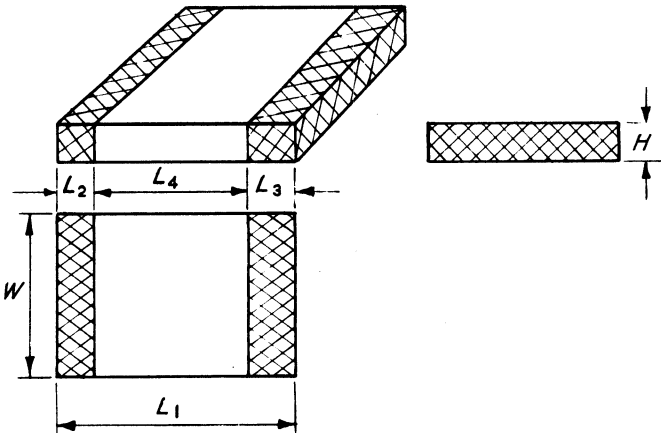


BRITISH STANDARDS INSTITUTION 2 PARK STREET, LONDON W1A 2BS	BS 9075 N001 ISSUE 2 AUGUST 1981
Specification available from:- BRITISH STANDARDS INSTITUTION 101 PENTONVILLE ROAD, LONDON N1 9ND TELEPHONE: 01-837 8801 TELEX: 23218	20 Pages
ELECTRONIC COMPONENTS OF ASSESSED QUALITY DETAIL SPECIFICATION IN ACCORDANCE WITH BS 9070: SECTIONS 1 & 2: 1969 BS 9070: SECTION 5: 1971	MANUFACTURER'S TYPE NUMBER See table 1 SEE PD 9002 For ordering information see clause 5
 The end surfaces indicated by cross hatching are metallized (See table 1)	FIXED CAPACITOR CERAMIC DIELECTRIC TYPE 1 AND TYPE 2 RECTANGULAR MONOLITHIC CHIP FULL ASSESSMENT

1. RATINGS (INCLUDING LIMITED CONDITIONS OF USE) AND CHARACTERISTICS

Capacitance values

For $\pm 1\%$, $\pm 2\%$, and $\pm 5\%$ tolerances the capacitance values are preferably selected from E24 series.

For $\pm 10\%$ tolerance the capacitance values are preferably selected from E12 series.

For $\pm 20\%$ and -20% , $+80\%$ tolerances the capacitance values are preferably selected from E6 series.

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

[Table 1

TABLE 1. DIMENSIONS

Dimensions are in millimetres

Pattern reference	W	H max.	L ₁	L ₂ and L ₃		L ₄ min.
				min.	max.	
0504	1.0 $\pm$ 0.3	1.1	1.25 $\pm$ 0.3	0.13	0.5	0.4
0805	1.25 $\pm$ 0.3	1.3	2.0 $\pm$ 0.3	0.13	0.75	0.5
0907	1.8 $\pm$ 0.3	1.3	2.3 $\pm$ 0.3	0.13	0.75	0.5
1005	1.25 $\pm$ 0.3	1.5	2.5 $\pm$ 0.3	0.13	0.9	0.6
1505	1.25 $\pm$ 0.3	1.5	3.8 $\pm$ 0.3	0.25	1.1	1.6
1210	2.5 $\pm$ 0.3	1.8	3.0 $\pm$ 0.3	0.25	1.1	0.8
1805	1.25 $\pm$ 0.3	1.5	4.5 $\pm$ 0.35	0.25	1.4	1.7
1808	2.0 $\pm$ 0.3	1.8	4.5 $\pm$ 0.35	0.25	1.4	1.7
1812	3.2 $\pm$ 0.3	1.8	4.5 $\pm$ 0.35	0.25	1.4	1.7
2220	5.2 $\pm$ 0.4	1.8	5.7 $\pm$ 0.4	0.25	1.4	2.9

NOTE 1. The dimensions and tolerances apply to chips without solder.

Capacitance range
(see table 2)

For individual manufacturers' capacitance ranges,
see PD 9002.

Preferred capacitance tolerances

Type 1B

C _R > 10 pF	C _R ≤ 10 pF
$\pm$ 1 % (F) $\pm$ 2 % (G) $\pm$ 5 % (J) $\pm$ 10 % (K)	$\pm$ 0.25 pF (C) $\pm$ 0.5 pF (D) $\pm$ 1.0 pF (F)

Type 2C1: $\pm$ 10 % (K); $\pm$ 20 % (M); -20 % +80 % (Z)

Type 2F4 and 2F6: $\pm$ 20 % (M); -20 % +80 % (Z)

Amendment No. 1
published and effective from 31 August 1982
to BS 9075 N001 : 1981

Detail specification for rectangular monolithic
fixed capacitor chips of assessed quality.
Ceramic dielectric type 1 and type 2

Revised text

AMD 3979
1982

Clause 1. Ratings (including limited conditions of use) and characteristics
For temperature coefficient, in line 2, delete '+120/—30 p.p.m.' and substitute
'+120/—40 p.p.m.'

8208—0

ECL/4

Amendment No. 2
published and effective from 30 November 1982
to BS 9075 N001 : 1981

Detail specification for fixed capacitors.
Ceramic dielectric type 1 and type 2,
rectangular monolithic chips. Full assessment

Additional text

AMD 4102
November 1982

Table 1. Dimensions

Insert the following at the end of the table:

1206	1.6 ± 0.3	1.8	3.2 ± 0.3	0.25	1.1	0.8
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D 4102
November 1982

Table 2. Maximum capacitance and voltage ratings

Insert the following at the end of the table:

1206	2.7 nF	2.7 nF	100 nF	39 nF	150 nF	68 nF
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Revised text

AMD 7511
June 1993

Front sheet

In the box 'Specification available from' delete
'BRITISH STANDARDS INSTITUTION
101 PENTONVILLE ROAD, LONDON N1 9ND
TELEPHONE : 01-837 8801 TELEX : 231218' and substitute
'BSI Standards
Linford Wood
Milton Keynes MK14 6LE
Tel : (0908) 221166
Fax : (0908) 322484
Telex : 825777'

AMD 7511
June 1993

Table 1 Dimensions (as amended by Amendment No. 2)

In the entry for pattern 1210 in column 4 headed L_1 , delete
'3.0' and substitute '3.2'.

NOTE. The tolerance is unchanged.

In the entry for pattern 1812, in column 6 headed L_2 and L_3
max., delete '1.4' and substitute '1.0'. In column 7 headed L_4
min., delete '1.7' and substitute '1.2'.

In the entry for pattern 1206 (inserted at the end of the
table by Amendment No. 2), in column 6, delete '1.1' and
substitute '0.75'. In column 7, delete '0.8' and substitute
'1.4'.

Insert the following at the end of the table (as amended by
Amendment No. 2).

1211	2.5 ± 0.3	1.8	3.2 ± 0.3	0.25	0.75	1.4
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AMD 7511
June 1993

Table 2 Maximum capacitance and voltage ratings (as amended by Amendment No. 2)

In column 1 headed 'Pattern reference' after '1210' insert
'or 1211'.

Below the table insert the following.

'NOTE. These capacitance values are for guidance only and values outside these
ranges may be approved. See PD 9002 for individual manufacturers' approved ranges.'

Clause 2 Related documents

In the title, BS 2011, delete 'Basic environmental testing procedures' and substitute 'Environmental testing'.

BS 6001. Delete 'Sampling procedures and tables for inspection by attributes' and substitute 'Sampling procedures for inspection by attributes'.

Part 1 Specification for sampling plans indexed by acceptable quality level (AQL) for lot-by-lot inspection'.

BS 9000. Delete 'General requirements for electronic components of assessed quality' and substitute 'General requirements for a system for electronic components of assessed quality'.

Part 1 Specification of general procedures

Part 5 Specification of qualification approval and conformance testing procedures'.

IEC 68-2. Delete 'Basic environmental testing procedures' and substitute 'Environmental testing'.

Clause 4 Inspection schedule

In line 4, delete '(see 2.6.5 of BS 9000 : Part 1)' and substitute '(see 5.2 of BS 9000 : Part 5 : 1989)'.

Clause 6 Marking

Delete the asterisk at the end of item (g) and delete the footnote at the bottom of the page.

Table 3 Inspection schedule

In the entry for subgroup A3 'Tangent of loss angle', in column 3, headed 'Performance requirements', under 'Type 1 capacitors', delete

' $\tan \delta \leq 10 \times 10^{-4}$ ' and substitute

' $\tan \delta (f = 100 \text{ kHz}) \leq 10 \times 10^{-4}$ '

$\tan \delta (f = 1 \text{ MHz}) \leq 15 \times 10^{-4}$ '

In subgroup B6, delete the tests 'Rapid change of temperature' and 'Adhesion' and corresponding text in columns 2 and 3, and substitute the following.

