

Detail specification: Fixed low power wire- wound surface mount (SMD) resistors — Rectangular — Stability classes 0,5; 1; 2

The European Standard EN 140402-801:2005 has the status of a British Standard

ICS 31.040.10

National foreword

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The UK participation in its preparation was entrusted to Technical Committee EPL/40X, Capacitors and resistors for electronic equipment, which has the responsibility to:

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Summary of pages

This document comprises a front cover, an inside front cover, the EN title page, pages 2 to 19 and a back cover.

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This British Standard was published under the authority of the Standards Policy and Strategy Committee on 15 September 2005

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ISBN 0 580 46028 2

Amendments issued since publication

Amd. No.	Date	Comments

English version

**Detail specification: Fixed low power wire-wound
surface mount (SMD) resistors –
Rectangular –
Stability classes 0,5; 1; 2**

Spécification particulière: Résistances
fixes bobinées à faible dissipation
pour montage en surface (CMS) -
Rectangulaire –
Catégories de stabilité 0,5; 1; 2

Bauartspezifikation:
Oberflächenmontierbare drahtgewickelte
Festwiderstände (SMD) niedriger
Belastbarkeit –
Rechteckig –
Stabilitätsklassen 0,5; 1; 2

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CENELEC

European Committee for Electrotechnical Standardization
Comité Européen de Normalisation Electrotechnique
Europäisches Komitee für Elektrotechnische Normung

Central Secretariat: rue de Stassart 35, B - 1050 Brussels

Foreword

This European Standard was prepared by the Technical Committee CENELEC TC 40XB, Resistors.

The text of the draft was submitted to the Unique Acceptance Procedure and was approved by CENELEC as EN 140402-801 on 2004-12-01.

This European Standard supersedes CECC 40 402-801:2000.

The following dates were fixed:

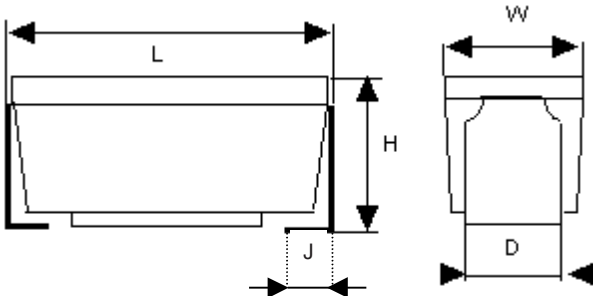
- latest date by which the EN has to be implemented
at national level by publication of an identical
national standard or by endorsement (dop) 2005-12-01
- latest date by which the national standards conflicting
with the EN have to be withdrawn (dow) 2007-12-01

This specification is part of 4 documents describing fixed resistors for surface mount technology as follows:

EN 60115-1	Fixed resistors for use in electronic equipment – Part 1: Generic specification (IEC 60115-1, mod.)
EN 140400	Sectional specification: Fixed low power surface mount (SMD) resistors
EN 140402	Blank Detail Specification: Fixed low power wire wound surface mounting (SMD) resistors
EN 140402-801	Detail specification: Fixed low power wire-wound surface mount (SMD) resistors – Rectangular – Stability classes 0,5; 1; 2

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Specification available from the National Committees members of CENELEC	EN 140402-801	
Electronic components of assessed quality in accordance with: EN 60115-1:2001 EN 140400:2003 EN 140402:1998	Issue 1	
 Other shapes are permitted within the given dimensions. Figure 1 – Outline and dimensions (see Table 1)	Fixed low power wire wound surface mounting resistors (SMD) with rectangular base Style: RW	
	Wire wound, insulated resistor with end terminations for application on rigid or flexible printed board	
	Assessment level EZ ^{*)} Version A: with 100 % test Version E: with failure rate level and 100 % test Stability classes 0,5 ; 1 and 2	
*) For explanations on assessment level EZ see 2.1.1.		

1 Characteristics and ratings

Various parameters of this component are precisely specified in this specification. Unspecified parameters may vary from one component to another.

1.1 Dimensions and Ratings

Table 1 – Style and dimensions

Style		Length <i>L</i> mm		Width <i>W</i> mm		Height <i>H</i> mm		Termination Width <i>D</i> mm		Termination breadth <i>J</i> mm		Weight ^a mg
metric	inch	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.	max.
RW 0503M	RW 2012	4,6	5,6	3,1	3,3	2,0	2,8	1,0	1,5	0,7	1,3	200
RW 0704M	RW 2515	5,8	8,0	3,4	4,8	1,7	4,5	2,0	2,8	0,8	1,8	400
RW 1107M	RW 4527	10,5	12,5	5,0	8,4	3,5	5,5	3,0	5,6	1,0	2,8	1 000
RW 1607M	RW 6927	14,3	18,3	6,6	7,5	6,4	7,6	3,0	5,8	2,0	2,8	1 700

^a For information only.

Table 2 – Ratings for stability class 2; 1 and 0,5 on printed board

Style	Stability class	Rated dissipation P_{25}^a W	Limiting element voltage d.c. or a.c. (r.m.s) U_{max} V	Insulation voltage d.c. or a.c. (peak) U_{ins} V	
				1 min	continuous
RW 0503M	2; 1; 0,5	0,75	33	500	75
RW 0704M	2; 1; 0,5	1,0	50	500	75
RW 1107M	2; 1; 0,5	2,0	150	500	75
RW 1607M	2; 1; 0,5	2,5	200	500	75

^a Power dissipation at 70°C is 80 % of rated dissipation (see derating curve).

1.2 Derating curve

Resistors covered by this specification are derated according to the following diagram:

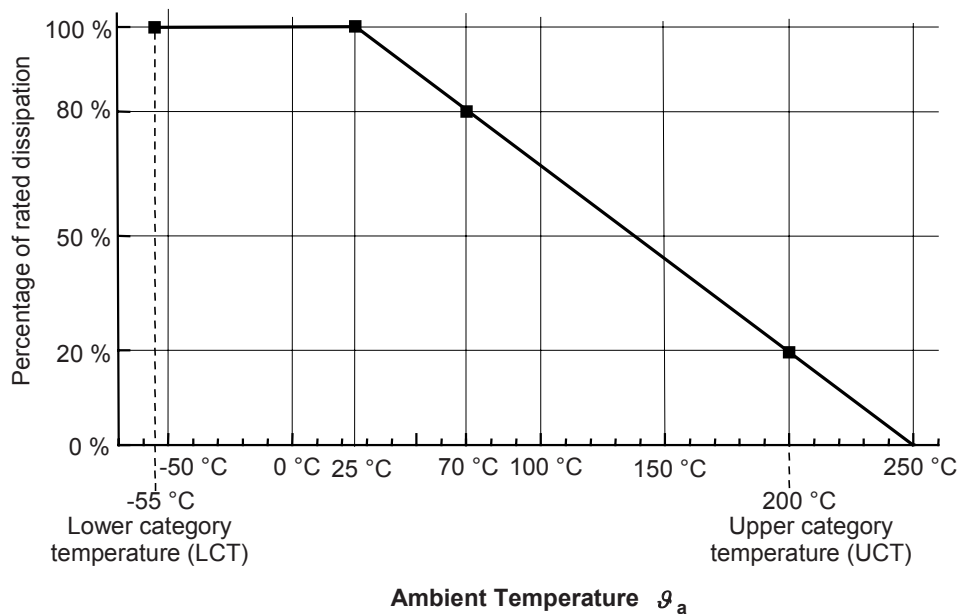


Figure 2 – Derating curve

See 1.8.6 regarding special care on derating information.