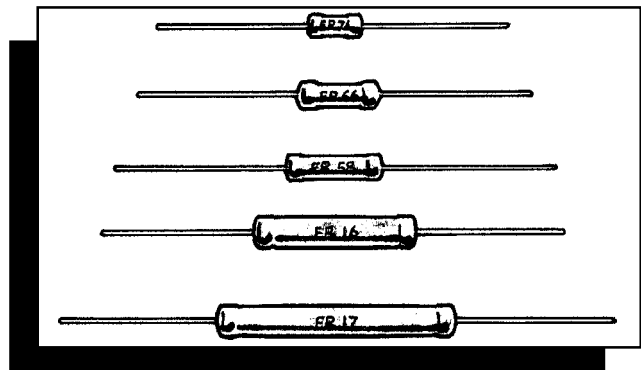


MEGGITT CGS

HIGH VOLTAGE RESISTORS
HIGH VALUE RESISTORS
HIGH POWER RESISTORS
ALUMINIUM CLAD RESISTORS
CURRENT SENSE RESISTORS

High Power Resistors

TYPE ER SERIES



A tough silicone coated power resistor. The coating and marking are resistant to Trichloroethene VG, Genklene LV Hot and Cold, Freon TE, Arklone A, Fluorosil E, Freon TMS, Arklone L Hot and Cold and Arklone F Hot. If the resistor is in contact with the PCB the maximum dissipation to avoid damage to the PCB may be ascertained by reference to the hot spot temperature graph. Vertical mounting style is available. The ER series is the leading silicone coated resistor and is suited to a wide range of industrial, control, medical and consumer applications.

MEGGITT CGS KEY FEATURES

- HIGH POWER DISSIPATION
 - TOUGH SILICONE COATING
 - SPECIAL PULSE STYLES AVAILABLE
 - ATTRACTIVELY PRICED
 - 0.5% TOLERANCE AVAILABLE
 - RESISTANT TO MOST SOLVENTS
 - VERTICAL MOUNT STYLES AVAILABLE
 - CUSTOM DESIGNS WELCOMED
 - WIDELY AVAILABLE VIA DISTRIBUTION
-

SPECIFICATION

TYPE ER SERIES

ELECTRICAL

- Resistance measured 6mm either side of body.

Maximum Continuous Voltage

$\sqrt{P \times R}$ P = Rated Power (Watts)

R = Nominal Resistance (Ohms)

Type	Power Rating (W) at 40°C	Power Rating (W) at 70°C	Resistance Range	Maximum Element Volts	Weight
ER74	3W	2.5W	R03-10K	100V	1 grm
ER58	7W	6W	R07-20K	200V	3 grms
ER16	11W	9W	R13-68K	500V	5 grms
ER17	14W	12W	R20-100K	750V	6 grms

ENVIRONMENTAL

Temperature Category: -55°C to 200°C

Humidity Classification: 56 days

Standard Tolerances: > 1 ohm ± 5%

< 1 ohm ± 10%

Tolerances of down to: ± 0.5% are available

Load Life Stability: ± 5%

Temperature Coefficient*: 0 ± 200ppm/°C maximum

0 + 60 ppm/°C typical (over 1 ohm)

*Very low temperature coefficients to ± 20ppm/°C are available to special order

Solderability conforms to: BS 2011 Test 2.1 Ta Solder bath method (IEC 68-2-20) Wets in < 2 seconds

Termination Robustness: BS 2011 Test 2.1 Ua withstands 0.5 kg tensile load and double bend with 0.25 kg load

Typical Inductance: "L" maximum = 2 µH for ohmic values lower than

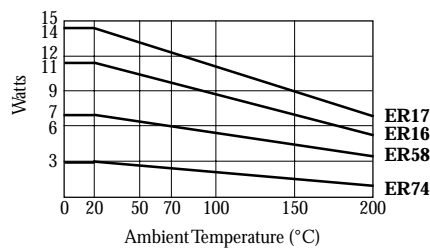
200 ohms for ER74 style

75 ohms for ER16 style

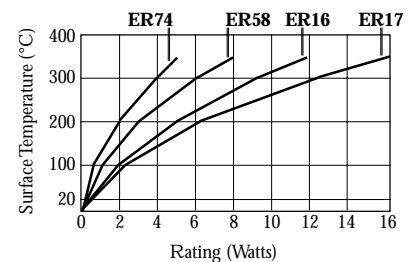
150 ohms for ER58 style

50 ohms for ER17 style

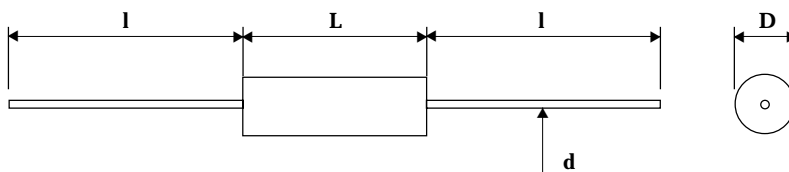
Dissipation/Ambient Temperature



Hot Spot Temperature @ 40°C



DIMENSIONS



Type	Dimensions nominal			
	L	D	l	d
ER74	11.5	5.3	38.0	0.8
ER58	20.5	6.7	38.0	0.8
ER16	34.5	6.7	38.0	0.8
ER17	50.2	6.7	38.0	0.8

Type	Dimensions maximum			
	L	D	l	d
ER74	13.5	6	38.0	0.8
ER58	22.2	8	38.0	0.8
ER16	38.1	8	38.0	0.8
ER17	53.5	8	38.0	0.8

HOW TO ORDER

ER	74	100R	J	T
COMMON PART	POWER RATING at 40°C	RESISTANCE VALUE	TOLERANCE	PACK STYLE
ER - Silicone Coated Resistor	74 - 3W 58 - 7W 16 - 11W 17 - 14W	0.1 ohm (100 mille ohms) R10 1 ohm (1000 mille ohms) 1R0 1 K ohm (1000 ohms) 1K0	D ± 0.5% F ± 1% G ± 2% J ± 5% K ± 10%	- Loose Pack No Letter R Banded and Reeled T Ammo Packed

M Meggitt Electronic Components Ltd. Ohmic House, Westmead Industrial Estate, Swindon, Wilts. SN5 7US
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