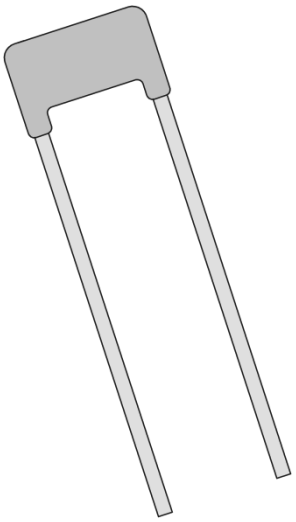
R1-123

High-value Leaded Resistor

FEATURES

- Resistance value to 100 GΩ
- Small size

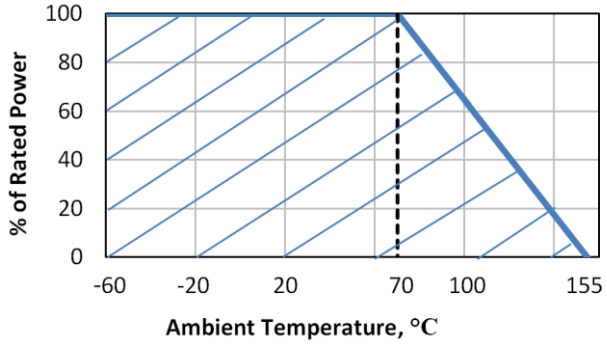


GENERAL SPECIFICATIONS

Operating Temp. Range:	-60 °C to 155 °C
Load Life 70 °C/ 1000 h:	10 %
Max. Resistance Change at Rated Dissipation |ΔR/R max.| after 15000 h	15 %
Package:	Leaded
Process:	Thick Film
Substrate Material:	96 % Al_2O_3
Coating:	Epoxy
Termination Finish:	Sn-Pb

Part Number	Resistance Value[(1)], E48 Series (Ohms)	Resistance Tolerance (± %)	Max. Operating Voltage (V)	Temperature Coefficient (ppm/°C)
R1-123	1M-24M 27M-100G	10, 5	200	±500 -2000

(1) Measured at 10 V



PART NUMBER CODE

R1-123	9107	J
model	value 1004 = 1 MΩ 1009 = 100 GΩ	tolerance J = 5 % K = 10 %

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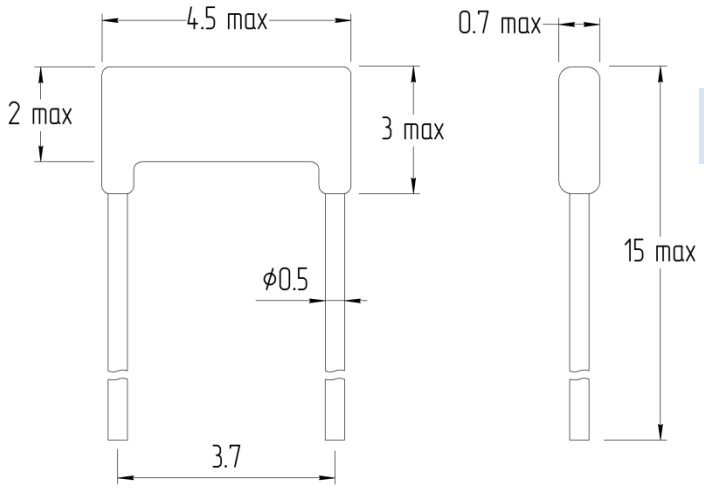

Dimensions in mm
Mass 0.2 g

PERFOMANCE CHARACTERISTICS

Test	Condition	ΔR max.
Robustness of termination	IEC60115-1 (4.16)/ IEC 60068-2-21 Bending; Tensile	± 3 %
Solderability	IEC60115-1 (4.17)/ IEC 60068-2-20 (235±5) °C; 2 s; solder bath method; SnPb40	Good tinning (>95 % covered, no visible damage)
Resistance to soldering heat	IEC60115-1 (4.18.2)/ IEC 60068-2-20 (260±5) °C; (5±1) s	± 2 %; no visible damage
Rapid change of temperature	IEC60115-1 (4.19)/ IEC 60068-2-14 30 min at -60 °C; 30 min at 155 °C; 5 cycles	± 3 %
Low air pressure	IEC60115-1 (4.23.5)/ IEC 60068-2-13 0,67 kPa; 30 min; 15 °C to 35 °C	No visible damage
Damp heat, steady state	IEC60115-1 (4.24)/ IEC 60068-2-78 (40±2) °C; 21 days; (93±3) % RH	± 5 %

All tests are carried out in accordance with the following specifications:

- IEC 60115-1 (clause),
- IEC 60068-2-xx (test method).

PACKAGING

Carton box.

MOUNTING PROCEDURE

Can be used only in manual assembly technique.

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