Resistor Technology

RIT-Series
Low TC High Voltage Resistor
Sizes: RIT26, RIT39, RIT52, RIT78, RIT103, RIT124, RIT154

Features:

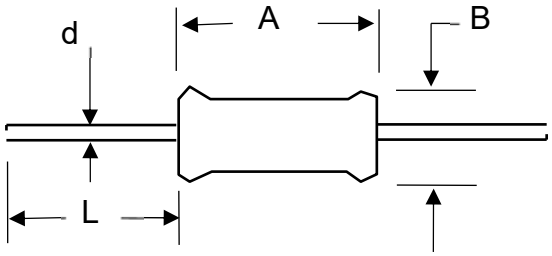
- Axial leads
- Non inductive
- Tolerances down to 1%
- Wide range of resistance values
- High operating voltages up to 30 kV
- Temperature coefficient (TCR) 25 ppm/K
- High temperature capability up to 200°C

RoHS / ELV conform 2011/65/EC 2000/53/EC

e3

Dimensions:

Type	A	B	d	L
RIT26	26.9 ±1.0	8.2 ±0.5	1.0 ±0.05	30 ±3
RIT39	39.0 ±1.0	8.2 ±0.5	1.0 ±0.05	30 ±3
RIT52	52.1 ±1.0	8.2 ±0.5	1.0 ±0.05	30 ±3
RIT78	77.7 ±1.0	8.2 ±0.5	1.0 ±0.05	30 ±3
RIT103	101.3 ±1.0	8.2 ±0.5	1.0 ±0.05	30 ±3
RIT124	123.3 ±1.0	8.2 ±0.5	1.0 ±0.05	30 ±3
RIT154	153.7 ±1.0	8.2 ±0.5	1.0 ±0.05	30 ±3



Technical data – depending on size:

Size	Power rating	Max. continuous operating voltage	Resistance (Ω)	
	P_{75} (W)	(kV)	min.	max.
RIT26	1.0	4.0	100K	250M
RIT39	1.5	6.0	150K	400M
RIT52	2.0	10	200K	500M
RIT78	3.0	15	300K	700M
RIT103	4.0	20	400K	1G
RIT124	5.0	25	500K	1G
RIT154	6.0	30	600K	1G

On special request: maximum continuous operating voltage up to 60% higher than values listed in the table can be achieved by special factory conditioning.

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Sizes: RIT26, RIT39, RIT52, RIT78, RIT103, RIT124, RIT154

Technical data – general:

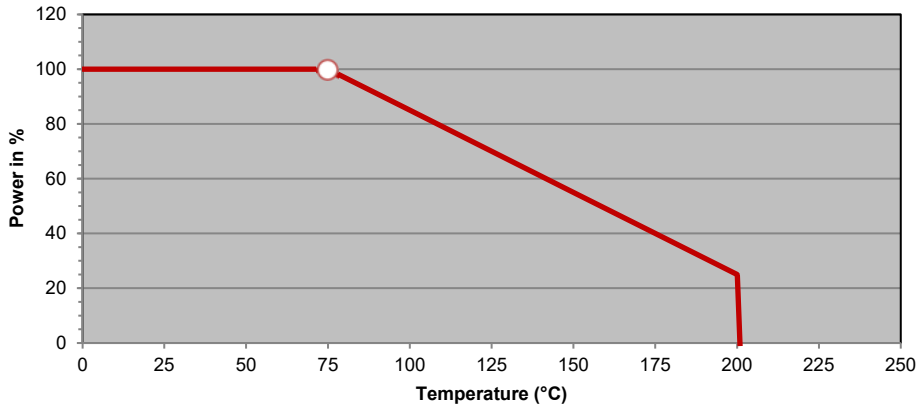
Resistance Tolerance	±1%, ±5%, ±10% (±0.5% on special request only)
Temperature Coefficient TCR	25 ppm/K
Insulation resistance	10 GΩ
Temperature range	-55°C ... +200°C
Climatic category acc. to EN 60068-1	55/200/56
Solderability acc. to EN 60068-2-58	245°C @ 3 s
Max. soldering temperature acc. to EN 60068-2-58	260°C @ 10 s
Encapsulation	High temperature silicone conformal coating

Long term stability	
Load life 75°C/1000h	ΔR ≤ 0.5%
Overload 5x P_N (≤1.5 Max. operating voltage) 5s	ΔR ≤ 0.5%
Thermal shock	ΔR ≤ 0.25%
Moisture resistance (240h @ 40°C; 93% RH)	ΔR ≤ 0.4%

Ordering Data:
Type – size - value – tolerance – temperature coefficient TCR
Example: RIT 124 200M ±5% TCR 25

Minimum order quantity (MOQ): 50 pieces per value

Derating Curve:



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