RIG8B Series

High-Voltage, High-Power Thick-Film Resistors

Applications

For load, voltage division, sensing and discharge in high-voltage and ultra-high-voltage, high-power electronic equipment without external cooling.

Features

- High-alumina ceramic housing provides effective natural cooling and high-temperature voltage withstand.
- Precious-metal oxide resistive paste offers a favorable TCR and a wide resistance range.
- Provides high resistance and high-voltage capability beyond the range of high-power wirewound resistors.

Design

- Internal heat-dissipation design supports natural cooling without external cooling equipment.
- Full-film design ensures low capacitance.
- Precious-metal oxide thick-film element provides excellent high-power pulse performance.



Mounting

Use a matching mounting bracket sized for the selected model.

Materials

Selected materials comply with UL-94V0.

Ordering Guide

RIG8B - Power - Resistance - Tolerance - TCR

Example: RIG8B-100 100W 100M J ±150ppm

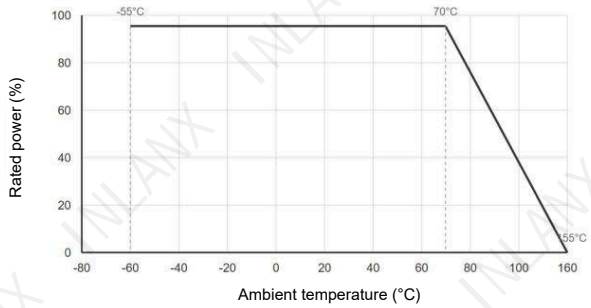
Electrical Characteristics

Parameter	Specification
Resistance range	50Ω ~ 100GΩ
Resistance tolerance	±2%(G) ±5%(J) ±10%(K)
Power range	30W ~ 1000W
Insulation resistance	≥1GΩ
Maximum working voltage	3kV ~ 100kV
Overload power	3 × rated power for 10 s
Temperature coefficient	≤150ppm/°C
Inductance	≤80nH
Distributed capacitance	≤100pF
Parallel capacitance	≤40pF

Technical Parameters and Dimensions

Rated power (W)	Resistance (Ω)	Dimensions (mm) ØD×L	Terminal d	TCR (×10^-6/°C)	Tolerance	Limiting voltage (kV)
30		ø16×90	M5			30
50		ø26×130	M6			50
70		ø26×175	M6	±150	±2%	70
100		ø26×260	M6			100
130		ø30×155	M8			130
150		ø30×270	M8			150
200		ø38×310	M8			200
250	50~100G	ø38×270	M8			250
300		ø43×420	M8	±200	±5%	300
350		ø60×463	M8			350
400		ø43×540	M8			400
500		ø38×620	M8			500
600		ø60×620	M8	±200	±8%	600
700		ø43×820	M8			700
800		ø43×1080	M8	±2500	±10%	800
1000		ø43×1350	M8			1000

Power Derating Curve



Outline Drawing

