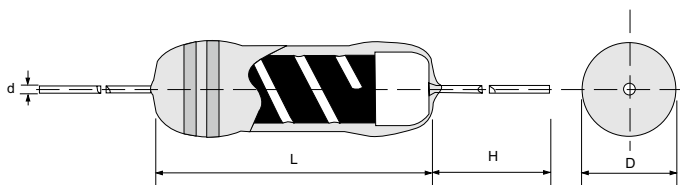


Quality • Reliability
Cost-Down via Innovation

IG



Specifications Per

- IEC 60115-1
- MIL-R-10509

Features

- Special coating technique to ensure fast ignition
- Color code per MIL & EIA standards
- Special conductive film to fuse at high temperature
- Auto cut-off after fusing/no sustaining fire hazard
- Special tin-plated electrolytic copper lead wire for optimal ease of soldering and mounting
- Products meet RoHS requirements and do not contain substances of very high concern identified by European Chemicals Agency

DIMENSIONS

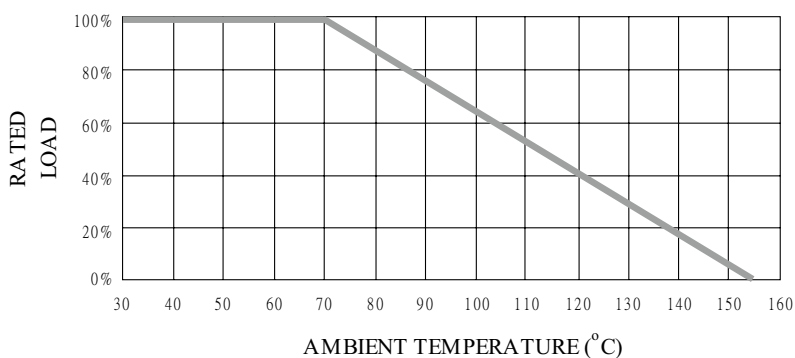
Type No.	Body Length (L, mm)	Body Diameter (D, mm)	Lead Wire Length (H, mm)	Lead Wire Diameter (d, mm)	Net Weight Per 1000Pcs
IG16	3.15 ± 0.2	1.7 ± 0.1	28 ± 3.0	0.45 ± 0.02	145 Grams

GENERAL SPECIFICATIONS

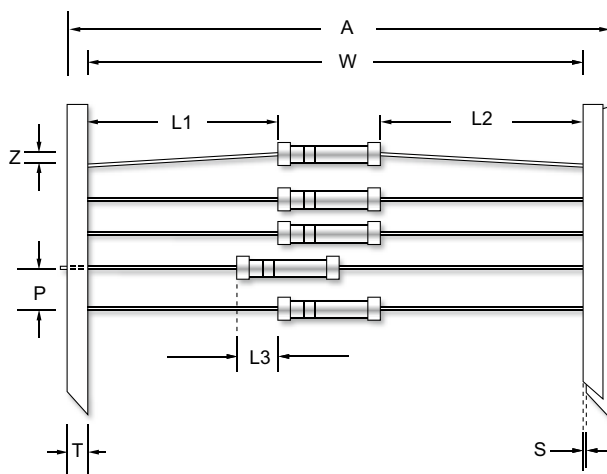
Type	Power Rating (at 70°C)	Maximum Working Voltage	Maximum Overload Voltage	Minimum Resistance	Maximum Resistance	Resistance Tolerance	Available Resistance Values
IG16	1/6W	200V	400V	1Ω	150Ω	±5%	E-24

Other sizes and values available on request.

POWER DERATING CURVE



TAPING/PACKING SPECIFICATIONS



Unit (mm)

Type No.	A Max.	L1-L2 (Max.)	L3 (Max.)	P ±0.5	S (Max.)	T ±0.5	W ±1.5	Z (Max.)
IG16	65	±1.0	0.5	5.0	0.8	6.0	52.5	1.2

Type No.	Packing Type	R16	R25
Minimum Packing QTY (pcs)	Ammo pack	5000	5000

PART NUMBER

Example: IG16J24R0TKZTB5K0

IG16	J	24R0	TKZ	TB5K0
Type	Tolerance	Resistance	TCR	Packaging
	J (5%)	24Ω 4-character code containing - 3 significant digits 1 letter multiplier OHM MULTIPLIER R = 1 K = 10 ³ M = 10 ⁶ G = 10 ⁹	3-character code TKZ = Default Product Temperature Coefficient. Information of typical product temperature coefficient can be found in the Technical Summary section of the datasheet.*	5-character code TB = Tape Box (pieces per box) IG16 5K0 = 5,000

* For the availabilities of non-default temperature coefficient, please check with us. Reference for TCR letter codes can be found in section (4) of Part Number Construction in the Appendices.

■ TECHNICAL SUMMARY

Characteristics	Limits
Ignition Power, W	≥24W
Ignition Time, second(s)	< 1 second
Temperature Coefficient, PPM / °C*	±200 PPM/°C
Insulation Resistance, MΩ	>10 ⁴
Operating Temperature Range, °C	-55 ~ +155

* Not applicable to all resistance values. Please check with us regarding the PPM of specific resistance value(s).

■ PERFORMANCE SPECIFICATIONS

Characteristics	Test Conditions	Limits
Short Time Over Load	IEC 60115-1 4.13 5 seconds 2.5x rated voltage (not over max. overload voltage)	±0.5%
Load Life In Humidity	IEC 60115-1 4.24 56 days rated load (not over max. working voltage) at (40±2)°C and (93±3)% relative humidity	±2%
Load Life	IEC 60115-1 4.25.1 Rated load (not over max. working voltage) 1,000 hours with 1.5 hours ON, 0.5 hours OFF, at (70±2)°C	±2%
Resistance To Soldering Heat	IEC 60115-1 4.18.2 Leads immersed till 3mm from the body in (260±5)°C solder for 10±1 seconds	±0.5%
Solderability	IEC 60115-1 4.17.2 Solder area covered after (235±3)°C/(2+0.2) seconds with flux applied	95% min.coverage
Vibration	IEC 60115-1 4.22 Six hours in each parallel and axial direction with a simple harmonic motion having an amplitude of 1.52mm and 10 to 2,000 Hz.	±0.5%
Thermal Endurance	IEC 60115-1 4.25.3 1000 hours at 155°C without load	±1%
Thermal Shock	IEC 60115-1 4.19 -55°C 30minutes, +155°C 30minutes, 5 cycles	±0.5%