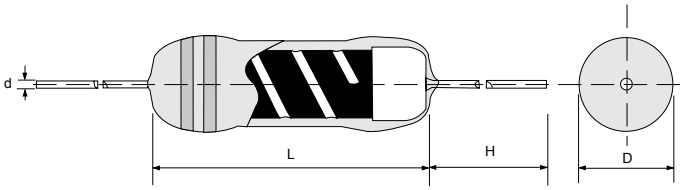
IG
Ignition Fixed Resistor

Quality • Reliability
Cost-Down via Technology



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 sustainging 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

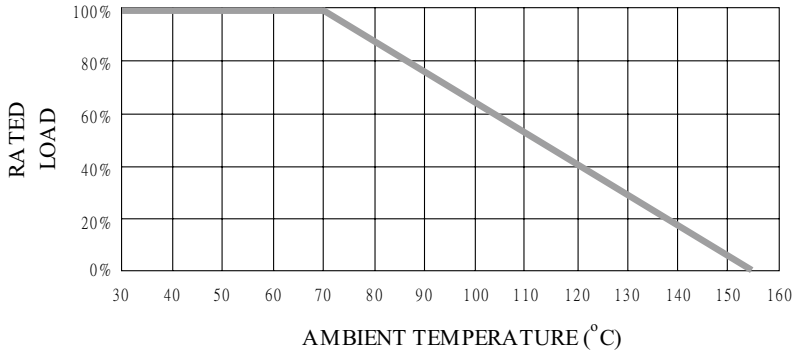
Type No.	Body Length (L , mm)	Body Diameter (D , mm)	Lead Wire Length (H , mm)	Lead Wire Diameter (d , mm)	Net Weight Per 1000Pcs
IG16	3.15 ± 0.2	1.7 ± 0.1	28 ± 3.0	0.45 ± 0.02	145 Grams

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



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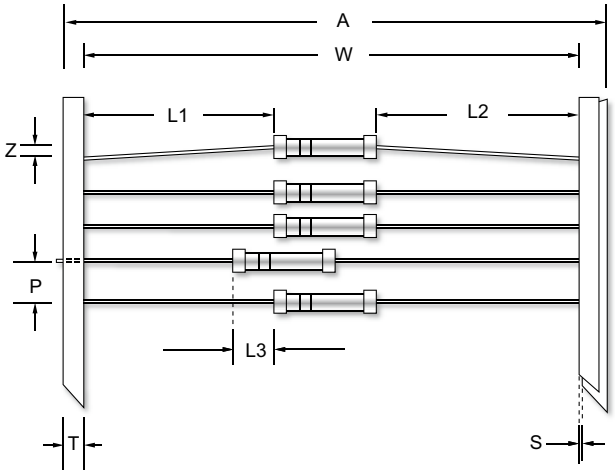
TAPING/PACKING SPECIFICATIONS



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 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.**

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TECHNICAL SUMMARY

Characteristics	Limits
Ignition Power, W	>21
Ignition Time, secone(s)	<1.5
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 at (40±2)°C and (93±3)% relative humidity	±2%
Load Life 1,000 hours	**IEC 60115-1 4.25.1** Rated load 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.
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%