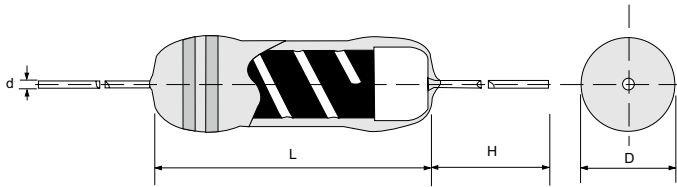


# IG Ignition Fixed Resistor

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

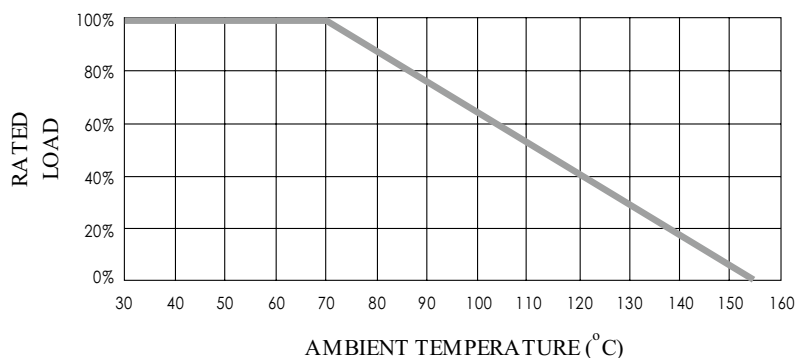
Type No.	Body Length (L, mm)	Body Diameter (D, mm)	Lead Wire Length (H, mm)	Lead Wire Diameter (d, mm)	Net Weight Per 1000Pcs
IG16	3.15 ± 0.2	1.7 ± 0.1	28 ± 3.0	0.45 ± 0.02	145 Grams

## 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

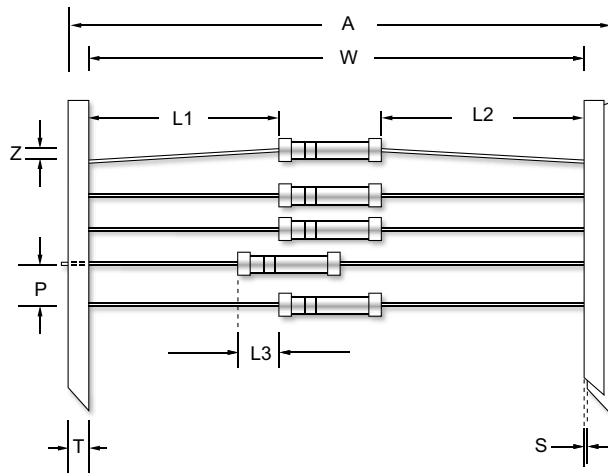
Other sizes and values available on request.

## POWER DERATING CURVE



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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 J (5%)	Resistance 24Ω 4-character code containing - 3 significant digits 1 letter multiplier  OHM MULTIPLIER R = 1 K = 10 <sup>3</sup> M = 10 <sup>6</sup> G = 10 <sup>9</sup>	TCR  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.*	Packaging  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 <sup>4</sup>
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	<b>IEC 60115-1 4.13</b> 5 seconds 2.5x rated voltage (not over max. overload voltage)	±0.5%
Load Life In Humidity	<b>IEC 60115-1 4.24</b> 56 days rated load (not over max. working voltage) at (40±2)°C and (93±3)% relative humidity	±2%
Load Life 1,000 hours	<b>IEC 60115-1 4.25.1</b> Rated load (not over max. working voltage) with 1.5 hours ON, 0.5 hours OFF, at (70±2)°C	±2%
Resistance To Soldering Heat	<b>IEC 60115-1 4.18.2</b> Leads immersed till 3mm from the body in (260±5)°C solder for 10±1 seconds	±0.5%
Solderability	<b>IEC 60115-1 4.17.2</b> Solder area covered after (235±3)°C/(2+0.2) seconds with flux applied	95% Min.
Vibration	<b>IEC 60115-1 4.22</b> 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	<b>IEC 60115-1 4.25.3</b> 1000 hours at 155°C without load	±1%
Thermal Shock	<b>IEC 60115-1 4.19</b> -55°C 30minutes, +155°C 30minutes, 5 cycles	±0.5%