

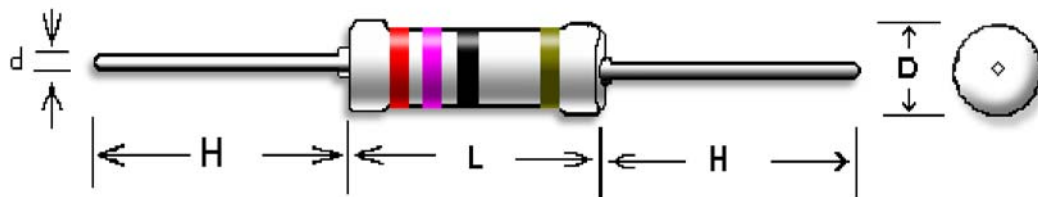
FGE- Fusible Resistor High Power

Specifications Per

- IEC 115-1 115-4

Features

- Flameproof Multi-layer Coating Meets UL-94V-0
- Flameproof Feature Meets Overload Test UL-1412
- Color Code Per MIL & EIA Standards
- Special Tin Plated Electrolytic Copper Lead Wire



Dimensions

Type	Body Length (L , mm)	Body Diameter (D , mm)	Lead Wire Length (H , mm)	Lead Wire Diameter (d , mm)	Net Weight Per 1000Pcs
FGE50	8.8 ±1.0	3.2 ±0.2	28 ±3.0	0.6 ±0.03	340 Grams
FGE101	8.8 ±1.0	3.2 ±0.2	28 ±3.0	0.6 ±0.03	340 Grams
FGE100	10.5 ±1.0	3.5 ±0.5	28 ±3.0	0.7 ±0.03	500 grams
FGE201	11.0 ±1.0	3.5 ±0.5	28 ±3.0	0.8 ±0.03	510 grams
FGE200	11.0 ±1.0	4.5 ±0.5	28 ±3.0	0.8 ±0.03	500 grams

General Specifications

Type	Power Rating (at 70°C)	Max. Working Voltage	Max. Overload Voltage	Resistance Range Min.	Resistance Range Max.	Resistance Tolerance	Standard Resistance Values
FGE50	1/2W	300V	600V	2.2Ω	10KΩ	±5%	E-24
FGE101	1W	300V	600V	2.2Ω	10KΩ	±5%	E-24
FGE100	1W	350V	600V	2.2Ω	10KΩ	±5%	E-24
FGE201	2W	350V	600V	2.2Ω	10KΩ	±5%	E-24
FGE200	2W	350V	600V	2.2Ω	10KΩ	±5%	E-24

Special resistance values available on special order.

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Technical Specifications

Characteristics	Limits	
Dielectric Withstanding Voltage, V AC or DC	FGE50:	300
	FGE101:	350
	FGE200:	500
	FGE100 / 201:	700
Temperature Coefficient, PPM/°C	FGE50 / 101 / 100 / 201:	±400
	FGE200:	±200
Operating Temperature Range, °C	-55~+155	
Insulation Resistance, MΩ	10 ⁴	
Fusing Condition, W	Interrupts in max. 60 seconds at below overload FGE50: 8 FGE101 / FGE100 / 200: 16 FGE201: 20	

Performance Specifications

Test Characteristics	Test Conditions	Limit
Short Time Overload	IEC 60115-1 4.13 2 seconds 2.5x rated voltage (not over max. overload voltage)	±(5% + 0.05R)
Load Life In Humidity	IEC 60115-1 4.24 56 days at 40°C and 93% relative humidity	±(5% + 0.05R)
Load Life 1,000 hours	IEC 60115-1 4.25.1 Rated load 1.5 hours ON, 0.5 hours OFF, at 70°C	±(5% + 0.05R)
Resistance To Soldering Heat	IEC 60115-1 4.18 10 seconds at 260°C solder bath temperature	±(1% + 0.05R)
Solderability	MIL-STD-202 Method 208 Solder area covered after 230±5°C/5±0.5 seconds w/ flux applied	FGE50 /101 /100 /201 90% Min.
		FGE200 95% Min.
Vibration	MIL-STD-202 Method 204 Six hours in each parallel and axial direction w/ a simple harmonic motion having an amplitude of 1.52mm and 10 to 20,000 Hz.	±(1% + 0.05R)
Terminal Endurance	IEC 60115-1 4.25.3 1000 hours at 155°C without load	±(1% + 0.05R)
Thermal Shock	IEC 60115-1 4.19 -55°C 30minutes, +155°C 30minutes, 5 cycles	±(1% + 0.05R)

Ordering Information

Type	Tolerance	Temperature Coefficient	Resistance Value	Packaging	Special Request (Optional)
FGE101 FGE201	J (5%)	TK400	10K	TB(Tape/Box) TR(Tape/Box)	LV (Low value)

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