

Features

- Meet AEC-Q200 test for Automotive industry.
- Suitable for lead free soldering.
- Compatible with wave and reflow soldering.
- Anti-sulfurate products.
- RoHS compliant & Halogen Free.

Applications

- Automotive industry.
- General electronic devices.

Part Number

Type	Size	Tolerance	Packing	-	GM	-	Specialty
FWF	02: 0402 03: 0603 05: 0805 06: 1206 20: 0805 25: 2512	F: ±1% G: ±2% J: ±5%	T: Paper tape – 5 Kpcs V: Paper tape – 10 Kpcs U: Paper tape – 15 Kpcs W: Paper tape – 20 Kpcs P: Paper tape – 4 Kpcs		1002 examples: 1002 100x10 ² =10KΩ		W: Anti-Sulfurate H2S 1000ppm

Rating

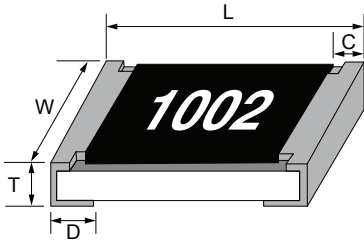
Type	Size	Power Rating at 70°C	Max. RCWW	Max. Overload Voltage	Resistance Tolerance (%)	Temperature Coefficient (ppm/°C)	Resistance Range		Standard Resistance Values
							Min.	Max.	
FWF02	0402	1/16W	50V	100V	±1%(F) ±5%(J)	±200	>1MΩ	10MΩ	E-96(F) E-24(J)
						±100	>10Ω	1MΩ	
						-200~+400	≥1Ω	10Ω	
FWF03	0603	1/10W	75V	150V	±1%(F) ±5%(J)	±200	>1MΩ	10MΩ	E-96(F) E-24(J)
						±100	>10Ω	1MΩ	
						-200~+400	≥1Ω	10Ω	
FWF05	0805	1/8W	150V	300V	±1%(F) ±5%(J)	±200	>1MΩ	10MΩ	E-96(F) E-24(J)
						±100	>10Ω	1MΩ	
						-200~+400	≥1Ω	10Ω	
FWF06	1206	1/4W	200V	400V	±1%(F) ±5%(J)	±200	>1MΩ	10MΩ	E-96(F) E-24(J)
						±100	>10Ω	1MΩ	
						-200~+400	≥1Ω	10Ω	
FWF20	2010	1/2W	200V	400V	±1%(F) ±5%(J)	±200	>1MΩ	10MΩ	E-96(F) E-24(J)
						±100	10Ω	1MΩ	
						±200	1Ω	<10Ω	
FWF25	2512	1W	250V	500V	±1%(F) ±5%(J)	±200	>1MΩ	10MΩ	E-96(F) E-24(J)
						±100	10Ω	1MΩ	
						±200	1Ω	<10Ω	

Jumper :

- 0603 size maximum resistance $R_{max} < 50m\Omega$ and rated current $I_r \leq 1A$
- 0805,1206, size maximum resistance $R_{max} < 50m\Omega$ and rated current $I_r \leq 2A$
- 2010,2512, size maximum resistance $R_{max} < 50m\Omega$ and rated current $I_r \leq 3A$

FWF Thick Film Lead Free Chip Resistors

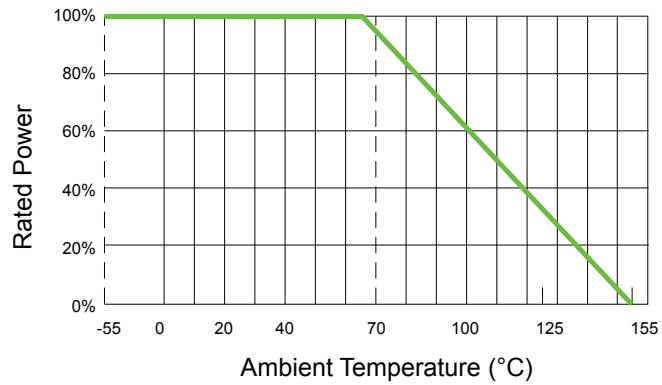
Dimension and Construction



unit: mm

Type	L	W	C	D	T
0402	1.00±0.05	0.50±0.05	0.20±0.10	0.25±0.10	0.35±0.05
0603	1.60±0.10	0.80±0.10	0.30±0.20	0.30±0.20	0.45±0.10
0805	2.00±0.10	1.25±0.10	0.40±0.20	0.40±0.20	0.50±0.10
1206	3.10±0.10	1.60±0.10	0.50±0.20	0.50±0.25	0.55±0.10
2010	5.00±0.20	2.50±0.20	0.60±0.25	0.60±0.25	0.60±0.10
2512	6.40±0.20	3.20±0.20	0.60±0.25	0.90±0.25	0.60±0.15

Power Derating Curve



- Maximum dissipation in percentage of rated power as a function of the ambient temperature.