

### Features

- Small size and lightweight with size range per int'l standard.
- Highly stable in auto-placement surface mounting application.
- Available for fine tuning of the resistance value to obtain optimal circuit signals.
- RoHS compliant & Halogen Free.

### Applications

- Tuner.
- Camcorder.
- Photo sensor.
- Mobile phon.
- Portable audio.
- Portable measuring equipment.

### Part Number

Type	Size	Tolerance	Packing	-	GM
<b>FTF</b>	<b>03:</b> 0603 <b>05:</b> 0805 <b>06:</b> 1206 <b>20:</b> 2010 <b>25:</b> 2512	<b>X:</b> 0% ~ -30% <b>Y:</b> 0% ~ -20% <b>Z:</b> 0% ~ -10%	<b>T:</b> Paper tape – 5 Kpcs <b>V:</b> Paper tape – 10 Kpcs <b>W:</b> Paper tape – 20 Kpcs <b>P:</b> Plastic tape – 4 Kpcs <b>X:</b> Plastic tape – 8 Kpcs <b>Y:</b> Plastic tape – 16Kpcs		<b>103</b> examples: 10×10 <sup>3</sup> =10KΩ

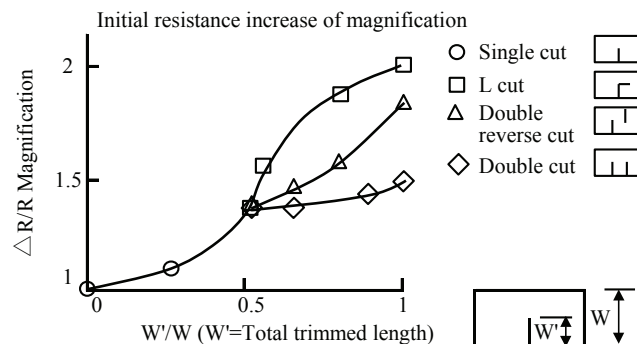
### Rating

Type	Size	Power Rating at 70°C	Max. RCWV	Max. Overload Voltage	Resistance Tolerance (%)	Temperature Coefficient (TCR; ppm/°C)	Resistance Range		Standard Resistance Values
							Min.	Max.	
FTF03	0603	1/10W	50V	100V	0 ~ -30%(X) 0 ~ -20%(Y) 0 ~ -10%(Z)	±100	10Ω	1MΩ	E-24
FTF05	0805	1/8W	150V	300V					
FTF06	1206	1/4W	200V	400V					
FTF20	2010	1/2W	200V	400V					
FTF25	2512	1W	200V	400V					

• E=(P x R)/1/2    E: Working Voltage(V)    P: Rated Power (W)    R: Resistance Value(Ω)

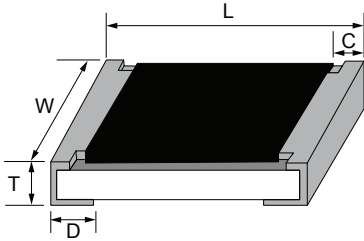
### Resistance rising rate

Trimming shall be performed by laser. The resistance rising limits the initial resistance value up to 2 times and the differences are depending on trimming patterns as shown at the left.



# FTF Lead Free Trimmable Chip Resistors

## Dimension and Construction



unit: mm

Type	L	W	C	D	T
0603	1.60±0.10	0.80±0.10	0.30±0.20	0.30±0.15	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±0.20	0.55±0.10
1210	3.10±0.10	2.60±0.15	0.50±0.25	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	0.55±0.10
2512	6.40±0.20	3.20±0.20	0.60±0.25	1.80±0.25	0.60±0.15

## Power Derating Curve

