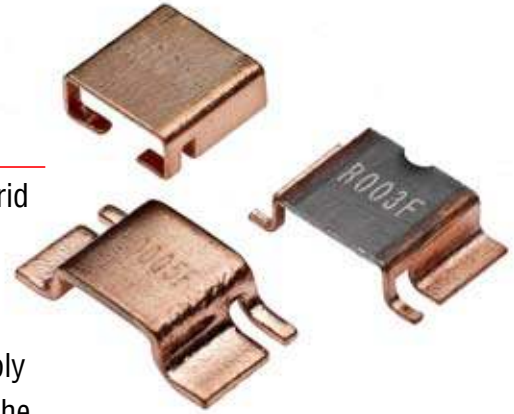


# FK/GK Series

## Metal Alloy Low-Resistance Chip Resistor



### FEATURES

- Power rating up to 5 watt
- 4-terminal connection
- Excellent long-term stability
- Ideal for mounting on DCB/IMS substrate
- RoHS compliant

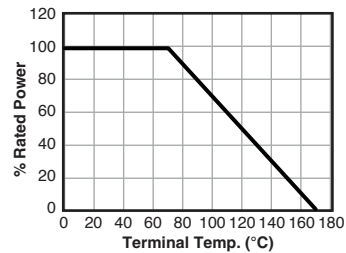
### APPLICATIONS

- Current sensor for power hybrid applications
- Frequency converters
- Power modules
- Automatic control power supply
- High current applications for the automotive market

### CHARACTERISTICS

<b>Resistance</b>	0.3mΩ to 3mΩ
<b>Tolerance</b>	1%
<b>Power</b>	5 watts @70°C
<b>TCR</b>	Manganin: $\leq \pm 70\text{ppm/K}$ Karma: $\leq \pm 40\text{ppm/K}$ (20°~120°C)
<b>Oper. temp. range</b>	-55 to +155°C
<b>Stability</b>	<1.0% (in covered condition)
<b>Termination and Material</b>	FKM Folded Term, Manganin FKK Folded Term, Karma GKM Gullwing Term, Manganin GKK Gullwing Term, Karma

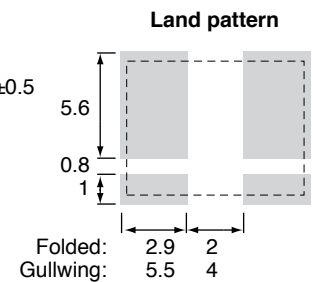
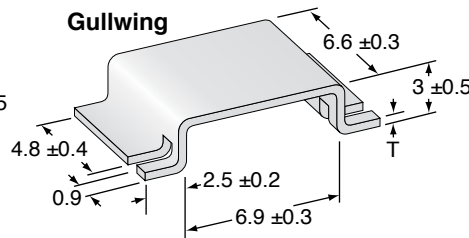
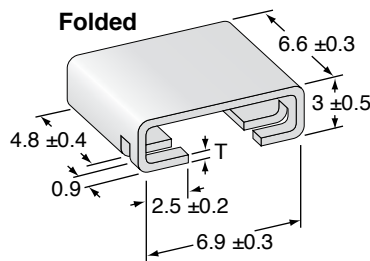
### Derating



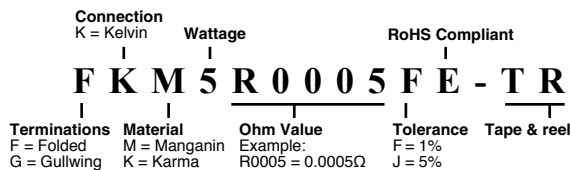
### DIMENSIONS

(mm)

Material	Res. (mΩ)	T ±0.1
Manganin	0.3	1.06
Manganin	0.5	0.67
Manganin	1	0.33
Karma	2	0.47
Karma	3	0.34



### ORDERING INFORMATION



### Standard part numbers

Part number	Power	Tolerance	Resistance	Qty./reel (pcs)
FKM5R0005FE-TR	5W	1%	0.0005Ω	1,000
FKM5R0010FE-TR	5W	1%	0.001Ω	1,000
FKK5R0020FE-TR	5W	1%	0.002Ω	1,000
FKK5R0030FE-TR	5W	1%	0.003Ω	1,000
GKM5R0003FE-TR	5W	1%	0.0003Ω	1,000
GKM5R0005FE-TR	5W	1%	0.0005Ω	1,000
GKM5R0010FE-TR	5W	1%	0.001Ω	1,000
GKK5R0020FE-TR	5W	1%	0.002Ω	1,000
GKK5R0030FE-TR	5W	1%	0.003Ω	1,000