

# **TGR Thick Film Resistors**

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Catalogue

# **KKT TGR Thick Film Resistors**



This product is designed for use with proper heatsinking

Maximum base plate temperature of the resistor must be monitored and kept within specified limits to establish the power rating. Best technique is to attach a thermocouple to the side of the base plate of the resistor. Tempera-ture of plastic housing or heat sink cannot be used to establish rating of the resistor.

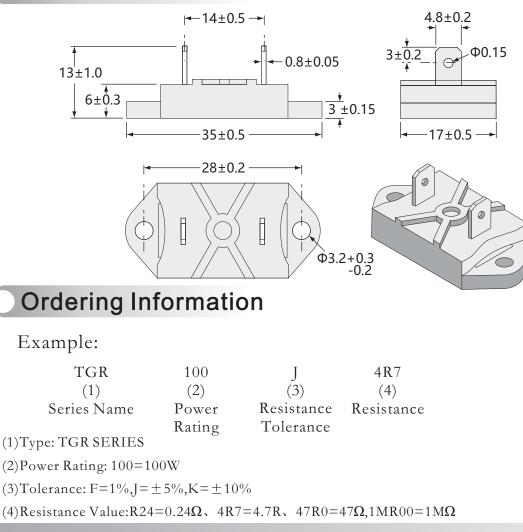
#### Features

- I Thermally efficient design uses ceramic base plate for better dissipation
- I Non-Inductive design
- II ROHS compliant
- IV Materials in accordance with UL 94 V-0

## Applications

This thick-film resistor is suited for lower power applications and comes in a molded package. Suitable for variable speed drives, power supply, control equipment, communica-tion, automatic control, engine control, etc.

### Dimensions



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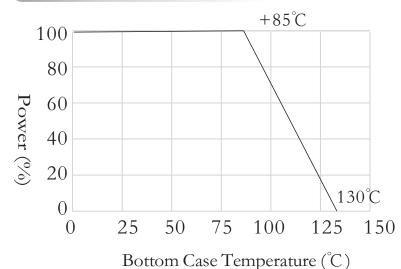
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# **KKT TGR Thick Film Resistors**

### **Applications And Ratings**

Туре	Power(W)		Max. operating voltage(V)	Tolerance range
TGR	100W	$0.24 \Omega \simeq 1 \mathrm{M} \Omega$	1000V DC	$\pm 1\% \pm 5\% \pm 10\%$

### **Derating Curve**



A thermal interface material with a specific thermal resistance >3.4W / (mK) and a printed thickness of <0.15mm shall be pre-applied on the resistor.

#### Performance

Resistance value range	$0.24\Omega$ to $1M\Omega$		
Tolerance range	$\pm 1\%$ to $\pm 10\%$		
TCR	$\geq 1\Omega: \pm 150 \text{ppm/}^{\circ} \text{ C} <1\Omega: \pm 250 \text{ppm/}^{\circ} \text{ C}$		
	$(+25^{\circ} \text{ C to } +105^{\circ} \text{ C, ref. to } +25^{\circ} \text{ C, others on request})$		
Rated power	$100W \text{ at } +85^{\circ}$ C bottom case temp.		
Derating	0.45 K/W		
Max. operating voltage	1000V DC		
Dielectric strength	3000V DC		
Working temperature	$-55^{\circ}$ C to $+130^{\circ}$ C		
Base plate installation	M3 screw, max. torque 0.7Nm		
Weight	6 grams		

### **Suggested Mounting Procedure**

(1) Position component and press down by hand

(2) Fix both mounting screws (M3) with 0.1 to 0.2 Nm torque

(3) Apply final torque to mounting screws of 0.6 to 0.7 Nm

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