

FEATURES

- Resistances from 0.050hm to 5M0hms
- Power Rating to 200Watt
- Resistance Tolerances to ±1%
- TCR to ±50ppm/K
- TO-227 (TO-238) Housing





TYPE		KPR 2-T227 KHR 2-T227
Resistance Range		0.05 Ohms to 5 MOhms
Power rating	With heatsink	100W 200W
Tolerances from 0.05 Ohms from 0.1 Ohms		2% / 5% / 10% 1% / 2% / 5% / 10%
Thermal Resistance Rthj-c		0.7 K/W 0.35 K/W
Stability (1000h)		1%
Temperature Coefficient 0.05 to 0.099 Ohms 0.1 to 5 MOhms		±300 ppm/K ±100 ppm/K upon request ±50 ppm/K
Voltage Proof		Standard 1.5 kVDC / upon request 2.5 kVDC
Inductivity Capacity		≤ 50 nH ≤ 35 pF
Max. Voltage depending on resistance value		10000 1000 100 Ohm 1 kOhm 5 kOhm 10 kOhm 100 kOhm
Operating Temper	ature Range	-40 to 155°C
Resistor Material		Thick Film
Substrate		Al_2O_3
Housing		Ероху
Connector Material		Cu / tinned
Terminals		2 (standard contact G - bended)
Max. Torque backplate terminals		1.5 Nm 1.3 Nm

ORDERING INFORMATION

Part Number - Resistance - Contact - Tolerance

Standard: KHR 2-T227 10R000 G 5%

Special: KHR 2-T227 12K500 G 5% 2.5 kVDC dia 1



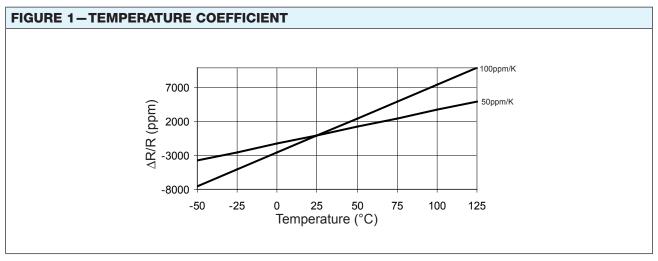
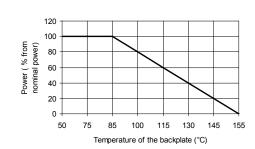


FIGURE 2-DERATING



Power Rating Notes -

The KPR / KPN / KHR / KHN Series Resistors must be attached to a suitable heatsink. The maximum internal resistor temperature is 155°C.

To specify an appropriate heatsink use the following formula:

$$R_{\theta H} = \frac{T_{MAX} - (P \times R_{\theta R}) - T_{A}}{P}$$

 $\begin{array}{ll} \mbox{Where:} & \mbox{$R_{\mbox{\tiny OH}}$ = Thermal Resistance of Heatsink (K/W) } \\ & \mbox{$R_{\mbox{\tiny OR}}$ = Thermal Resistance of Resistor (K/W) } \\ & \mbox{$T_{\mbox{\tiny MAX}}$ = Maximum Temperature of Resistor } \\ & \mbox{$T_{\mbox{\tiny A}}$ = Ambient Temperature of Heatsink (°C) } \\ \end{array}$

P = Power Through Resistor (W)

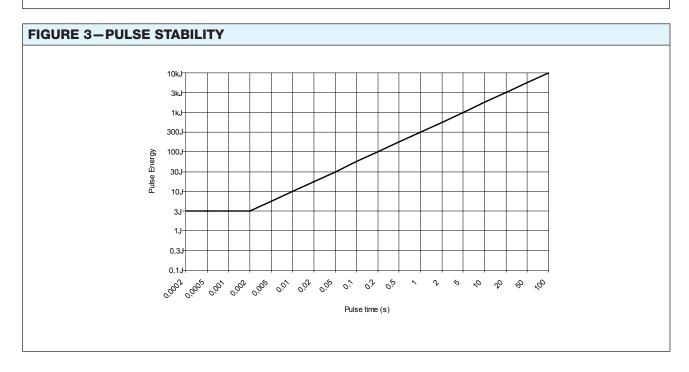
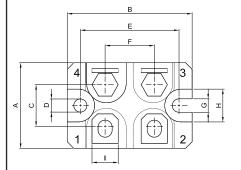
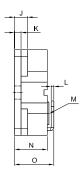


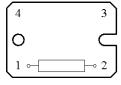


FIGURE 4-DIMENSIONS in mm (inches)

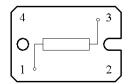




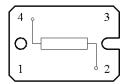
Dimension	mm
A ±0.5 (±0.020)	26 (1.02)
B ±0.5 (±0.020)	38 (1.50)
C ±0.2 (±0.008)	12.7 (0.50)
D ±0.2 (±0.008)	4 (0.16)
E ±0.2 (±0.008)	30 (1.18)
F ±0.2 (±0.008)	15 (0.59)
G ±0.2 (±0.008)	4.1 (0.16)
H ±0.2 (±0.008)	10 (0.39)
I ±0.2 (±0.008)	8 (0.31)
J ±0.2 (±0.008)	4 (0.16)
K ±0.2 (±0.008)	2 (0.08)
L ±0.1 (±0.004)	0.8 (0.03)
М	M4
N ±0.2 (±0.008)	10 (0.39)
O ±0.2 (±0.008)	11.9 (0.47)



KPR/KHR 2-T227



KPR/KHR 2-T227 dia1



KPR/KHR 2-T227 dia2



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