

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		KPN 2-T227 KHN 2-T227	
Resistance Range		0.05 Ohms to 5 MOhms	
Power Rating With heatsink		100 W 200 W	
Tolerances from 0.05 Ohms from 0.1 Ohms		2% / 5% / 10% 1% / 2% / 5% / 10%	
Thermal Resistance		0.7 K/W 0.35 K/W	
Stability (1000h)		1%	
TTemperature 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		≤ 50 nH	
Capacity		≤ 35 pF	
Max. Voltage depending on resistance value		10000 1000 1000 1000 1000 100 Mm 100 Ohm 1 kOhm 5 kOhm 10 kOhm 100 kC	Ohm
Operating Temperature Range		-40 to 155°C	
Resistor Material		Thick Film	
Substrate		Al_2O_3	
Housing		Plastic / Epoxy	
Connector Material		Cu / tinned	
Terminals		4 (Standard contact G - bended)	
Max. Torque backplate terminals		1.5 Nm 1.3 Nm	

ORDERING INFORMATION Part Number - Resistance - Contact - Tolerance KHN 2-T227 10R000/10R000 G 5%



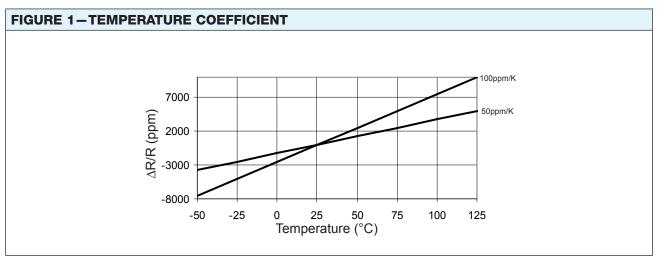
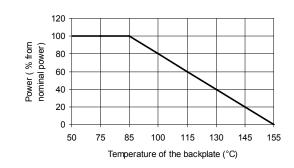


FIGURE 2-DERATING



Power Rating Notes -

The KPN / 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:

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

Where: $R_{_{0H}}$ = Thermal Resistance of Heatsink (K/W)

R_{OR} = Thermal Resistance of Heatsink (K/W)
R_{OR} = Thermal Resistance of Resistor (K/W)
T_{MAX} = Maximum Temperature of Resistor
T_A = Ambient Temperature of Heatsink (°C)

P = Power Through Resistor (W)

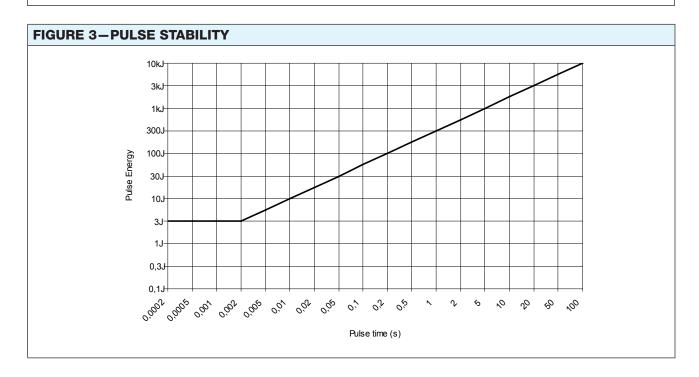
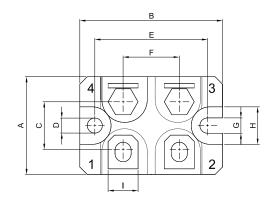
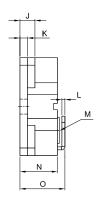


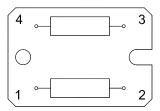


FIGURE 3-DIMENSIONS in mm (inches)





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)





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