

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China







KPR KPN 2/4-T227 KHR KHN 2/4-T227

Power Resistors









- RoHS
- Power Rating to 200Watt
- Resistance Tolerances to ±1%
- TCR to ±50ppm/°C
- TO-227 (TO-238) Housing

SPECIFICATIONS

Туре	KPR 2/4-T227 KPN 2-T227	KHR 2/4-T227 KHN 2-T227				
Resistance Range	0.05 Ohms to 5 MOhms					
Power rating with heatsink	100 W	200 W				
Thermal Resistance Rthj-c	0.7 °C/W	0.35 °C/W				
Tolerances from 0.05 Ohms from 0.1 Ohms	2% / 5% / 10% 1% / 2% / 5% / 10%					
Stability	1%					
Temperature Coefficient 0.05 to 0.099 Ohms 0.1 to 5 MOhms	±300 ppm/°C ±100 ppm/°C upon request ±50 ppm/°C					
Voltage Proof	1.5 kVDC or 2.5 kVDC (upon request)					
Inductivity	≤ 50 nH					
Capacity	≤ 35 pF					
Max. Voltage depending on resistance value	10000 1000 1000 1 kOh	m 5 kOhm 10 kOhm 100 kOhm				
Operating Temperature Range	-55 to					
Resistor Material	Thick Film					
Substrate	Al_2O_3					
Housing	Epoxy or Plastic					
Connector Material	Cu tinned					
Terminals	2 or 4					
Max. Torque backplate terminals	1.5 Nm 1.3 Nm					

Ordering Information

Part Description: Part Type - Resistance - Tolerance

KHR 2-T227 10 Ohms 5%

300 Cypress Avenue

Alhambra CA 91801

2 (626) 284-9901

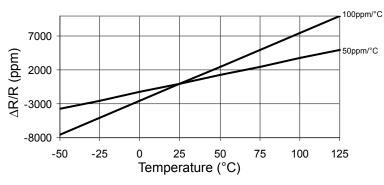
(626) 284-1704

Riedon Inc.

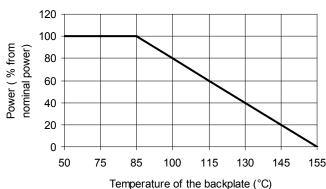


SPECIFICATIONS (continued)

Temperature Coefficient



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:

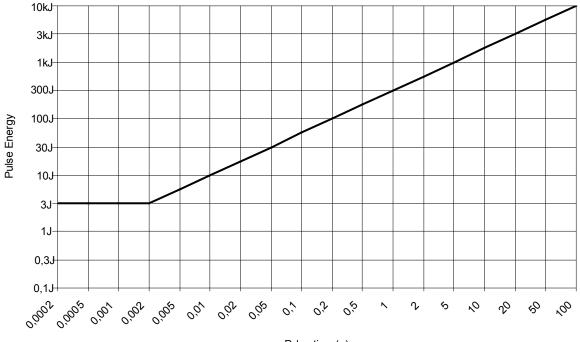
$$R_{\theta H} = \frac{T_{MAX} - (P \times R_{\theta R}) - T_{A}}{P}$$

Where: $R_{_{OH}}$ = Thermal Resistance of Heatsink (K/W) $R_{_{OR}}$ = Thermal Resistance of Resistor (K/W)

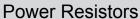
 $T_{\rm MAX}$ = Maximum Temperature of Resistor $T_{\rm A}$ = Ambient Temperature of Heatsink (°C)

P = Power Through Resistor (W)

Pulse Stability



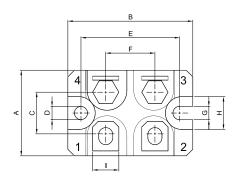
Pulse time (s)

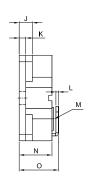




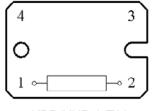
SPECIFICATIONS (continued)

Dimensions and Attachment Variations

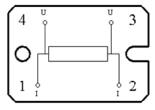




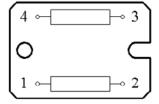
Dimension	mm	tol. (±mm)	inches	tol. (±inches)
А	26	0.5	1.02	0.020
В	38	0.5	1.50	0.020
С	12.7	0.2	0.50	0.008
D	4	0.2	0.16	0.008
Е	30	0.2	1.18	0.008
F	15	0.2	0.59	0.008
G	4.1	0.2	0.16	0.008
Н	10	0.2	0.39	0.008
I	8	0.2	0.31	0.008
J	4	0.2	0.16	0.008
K	2	0.2	0.08	0.008
L	0.8	0.1	0.03	0.004
М	M4		M4	
N	10	0.2	0.39	0.008
0	11.9	0.2	0.47	0.008



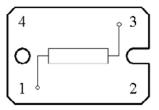
KPR/KHR 2-T227



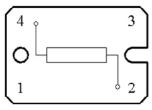
KPR/KHR 4-T227



KPN/KHN 2-T227



KPR/KHR 2-T227 dia1



KPR/KHR 2-T227 dia2