

FEATURES

- Resistances from 0.050hm to 5000hms
- Power Rating to 30Watt
- Resistance Tolerances to ±0.01%
- TCR to ±1ppm/K
- Load Stability to 0.01%





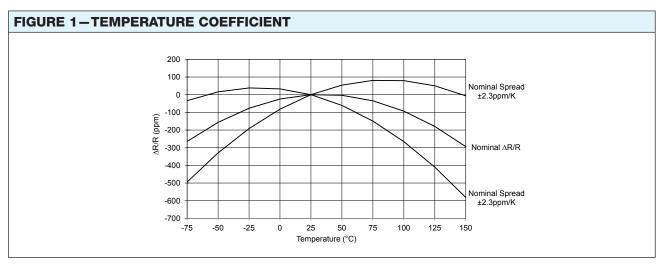
TABLE 1—SPECIFICATIONS			
TYPE		PCS332	
Resistance Range		0.05 to 500 Ohms other resistance values upon request power rating depending on resistance value	
Power Rating	Free air 70°C	3W	
	With heatsink	30W	
Tolerances from 0.05 Ohms from 10.0 Ohms from 50.0 Ohms		0.1% / 0.25% / 0.5% / 1% 0.05% / 0.1% / 0.25% / 0.5% / 1% 0.01% / 0.02% / 0.05% / 0.1% / 0.25% / 0.5% / 1%	
Thermal Resistance		3.5 K/W	
Stability (1000h)		0.01%	
Shelf Life Stability		25ppm / ΔR after 1 year 50ppm / ΔR after 3 years	
Temperature Coefficient \geq 0.05 Ω to < 0.25 Ω \geq 0.25 Ω to < 1.00 Ω \geq 1.00 Ω to < 10.0 Ω \geq 10.0 Ω to 500.0 Ω		±5ppm/K (0 to 60°C) ±3ppm/K (0 to 60°C) ±2ppm/K (0 to 60°C) ±1ppm/K (0 to 60°C)	
Voltage Proof		750 VDC	
Maximum Current		15A	
Thermal EMF		< 0.1µV/K	
Operating Temperature Range		-40 to 130°C	
Resistor Material		Bulk Metal® Foil	
Substrate		Anodized aluminium	
Housing		Ероху	
Connector Material		Cu / tinned	
Terminals		4 (standard contact S)	
Max. Torque		1 Nm	
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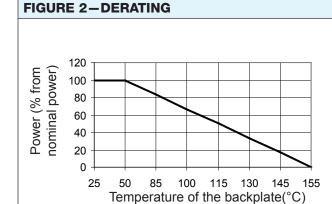
ORDERING INFORMATION

Part Number - Resistance - Contact - Tolerance - TCR (if not standard)

PCS 332 10R0 S 0.1%







Power Rating Notes -

The PCS-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:

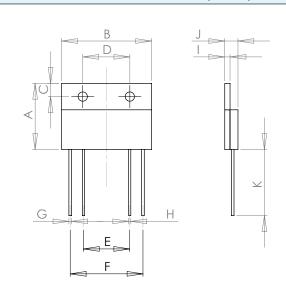
$$R_{\theta H} = \frac{T_{MAX} - (P \times R_{\theta R}) - T_{A}}{P}$$

 $\begin{array}{ll} \mbox{Where:} & \mbox{$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 } \\ \end{array}$

 T_{Δ} = Ambient Temperature of Heatsink (°C)

P = Power Through Resistor (W)

FIGURE 3-DIMENSIONS in mm (inches)



Dimension	S-contact
A ±0.2 (±0.008)	25.00 (0.98)
B ±0.5 (±0.02)	34.00 (1.34)
C ±0.1 (±0.004)	5.00 (0.20)
D ±0.2 (±0.008)	17.80 (0.70)
E ±0.2 (±0.008)	17.50 (0.69)
F ±0.2 (±0.008)	27.50 (1.08)
G ±0.1 (±0.004)	1.00 (0.04)
H ±0.1 (±0.004)	0.80 (0.03)
I ±0.2 (±0.008)	2.00 (0.08)
J ±0.2 (±0.008)	5.00 (0.20)
K (Minimum)	25.00 (0.98)



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