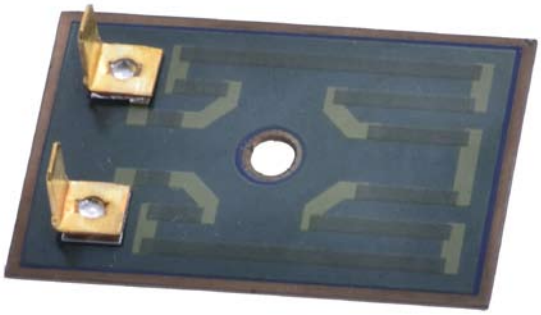
IS Series

Ultra Low Profile Power Resistors

HEAT SINKABLE



FEATURES

- Heatsinkable
- Low profile
- High power
- Pulse handling capability
- Non-flammable
- Low inductances
- Available with fast-on terminals or wire leads
- Rugged construction
- Ultra low profile thick-film on steel
- 175W to 270W sizes
- Single fixing heatsink mountable

USES

- Braking resistors
- In-rush current limiter
- Bleeder resistor
- Power switching
- Soft charging

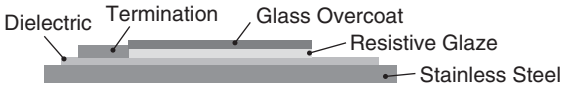
THIS PRODUCT IS DESIGNED FOR USE WITH PROPER HEATSINKING.

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.

SERIES SPECIFICATIONS

Type	Power Rating (watts)	Resistance Range (Ω)	Tolerance
IS175	175	5Ω to 10KΩ	10%, 20%
IS200	200	5Ω to 10KΩ	10%, 20%
IS250	250	5Ω to 10KΩ	10%, 20%
IS270	270	5Ω to 10KΩ	10%, 20%

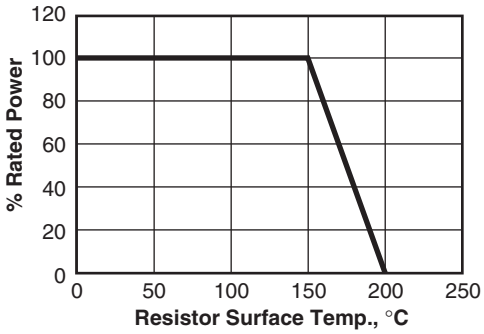
Construction



CHARACTERISTICS

TCR	<250ppm (surface temp less than 150°C)
Hot spot surface temperature	200°C max.
Working voltage	Not to exceed 300V
Over-vlotage rating	5X rated power for up to for up to 1 second
Resistive element	Thick Film
Derating	element surface temp. at 100% to 0% power at 200°C surface temp.
Power rating	dependent on mounting and heat-sink thermal capacity
Maximum element temperature	365°C
Pulsed load at full pulse power rating 1,000 cycles	Max. 1%ΔR; (see Fig 1) Mounted on a 0.06°C/W heatsink with forced air cooling, air temperature 25°C (ref AH32430 12" long)

Derating



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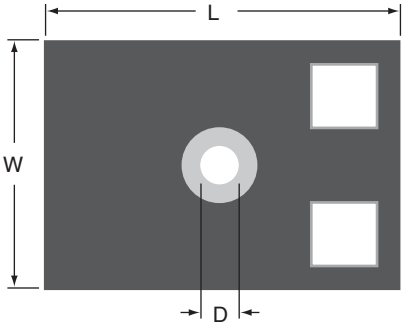
HEAT SINKABLE

DIMENSIONS

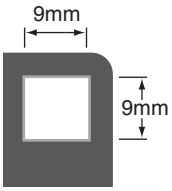
(in/mm)
Thickness: 0.04 in. / 0.9mm ±.1

Type	Wattage	L ±0.1mm	W ±0.1mm	ØD nom.	Wt. nom (oz/g)
IS175	175	1.94/49.30	1.41/35.90	0.13/3.20	0.44/12.60
IS200	200	2.40/61.00	1.60/40.60	0.21/5.30	0.60/17.10
IS250	250	4.00/101.60	2.76/70.00	0.21/5.30	1.78/50.80
IS270	270	4.80/122.00	2.76/70.00	0.21/5.30	2.12/60.70

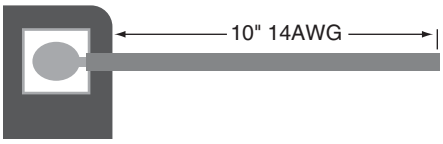


TERMINATION OPTIONS

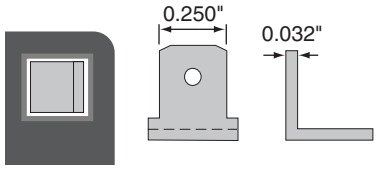
Solder pad only
SnAg (96S)



Flying leads



Push-on connectors



ORDERING INFORMATION

Tolerance
K = 10%
M = 20%

RoHS Compliant

I S 2 0 0 C 4 7 R K E

Series	Wattage	Termination	Resistance
Insulated Steel	175	A = Tinned pad	*3 digits*
	200	B = Soldered lead	47R = 47Ω
	250	C = Fast on terminal	
	270		

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