# **IS** Series

# **Ultra Low Profile Power Resistors**



### 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

Туре	Power Rating (watts)	Resistance Range (Ω)	Tolerance
IS175	· /	5Ω to 10KΩ	10%, 20%
IS200	200	$5\Omega$ to $10K\Omega$	10%, 20%
IS250	250	$5\Omega$ to $10 \text{K}\Omega$	10%, 20%
IS270	270	$5\Omega$ to $10 K\Omega$	10%, 20%

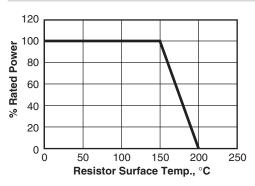
#### Construction

Dielectric Termination **Glass Overcoat** Resistive Glaze Stainless Steel

Derating

#### **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	
<b>Resistive element</b>	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	· · · · · · · · · · · · · · · · · · ·	





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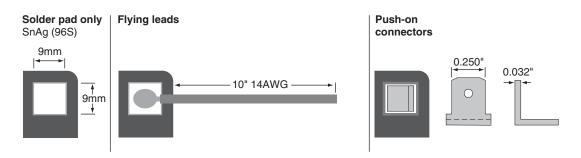


# **Ultra Low Profile Power Resistors**

	IONS

(in/mm)					
Thicknes	s: 0.04 in.	/ 0.9mm ±.1			
Туре	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



#### ORDERING INFORMATION

