Slim Type Metal Clad Wire Wound Resistors

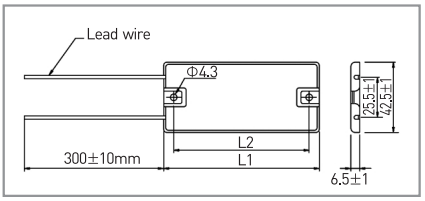
The IRS30, 50 are slim and flat, economical resistors. These models are ideal for applications where space and funds are at a premium. The most common applications for these models are: Motor drives, braking and snubber applications and power sources for industrial equipment.

GENERAL SPECIFICATIONS

Model	Rated Power on Heat Sink	Resistance Range [Ω]	Resistance Tolerance [%]
IRS 30	30W	1 ~ 420	D [±0.5], F [±1.0], G [±2.0], J [±5.0], K [±10]
IRS 50	50W	1 ~ 500	

DIMENSIONS [mm]

Model	Dimensions [mm]		Weight [g]
	L1±1	L2±1	
IRS 30	65	57	65
IRS 50	90	78	50



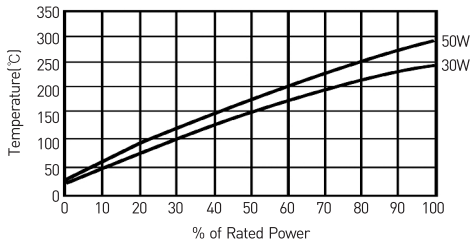
CHARACTERISTICS

Values in [ ] mean change in Ω after test

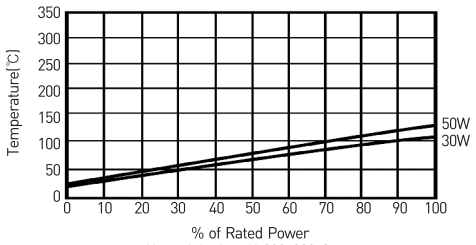
Temperature Range		-55℃ ~ +200℃
Insulation Resistance		20MΩ minimum
Dielectric Withstanding Voltage		Available options: AC1500V, 2500V for 1min.; Max. leakage current: 2mA
Temperature Coefficient		±260ppm/℃ maximum
Short Time Overload	±[2%+0.05Ω]	5 x Power rating 5 seconds
Thermal Shock	±[2%+0.05Ω]	Power rating 30 minutes, -25℃, 15 minutes
Load Life	±[5%+0.05Ω]	Power rating 1.5 hours on, 30 minutes off, 500 hours

SURFACE TEMPERATURE INCREASE VERSUS POWER LOAD

FREE AIR

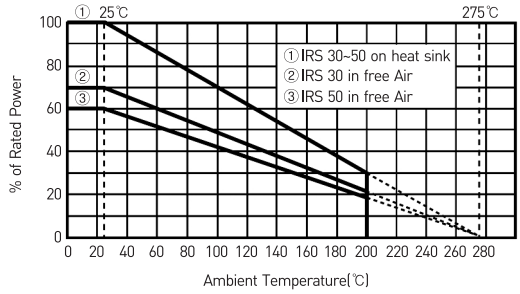


HEAT SINK



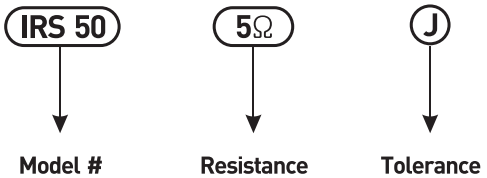
Heat sink size: Al 200x200x3mm

DERATING CURVES



① On chassis, 30W, 50W (Heat sink size: Al 200 x 200 x 3 mm)
② Free air 30W
③ Free air 50W

ORDERING PROCEDURE EXAMPLE



Tel: 82-32-817-4325 Fax: 82-32-817-4329