

## Precision Metal Clad Shunt

The IRHF is a four terminal metal clad shunt able to handle a high load capacity without effecting accuracy. Isolated voltage and current connection make this resistor suitable for very precise current measurements. The simple Kelvin design ensures easy installation on large current bus bars. Applications include battery manufacturing test stations, current detection in precise power sources, constant current sources, industrial power conversion circuits, HEV's, fuel cells and constant electronic loads.

### General Specifications

Model	Rated Current [A]	Rated Voltage [V]	Resistance Value [ $\Omega$ ]	Weight [g]	Resistance Tolerance
IRHF 300	500	100 mV	0.2000 m	1300	±0.1 (B) ±0.5 (D) ±1.0 (F)
	400	100 mV/50mV	0.2500m/0.1250m	1180	
	300		0.3333m/0.1666m	1100	
IRHF 200	250	100 mV	0.4000m	680	
	200		0.5000m		
	150		0.6666m		
	100		1.0000m		
IRHF 100	75		1.3333m	310	
IRHF 80	50/75		2.0000m/1.3333m	200	

### Characteristics

Temperature Range	-55°C to +110°C
Insulation Resistance	100M $\Omega$ minimum
Dielectric Withstanding Volt.	AC 500V for 1 minute
Temp. Coefficient	Max. 15ppm/°C [20°C and 60°C] / Max. 30ppm/°C [20°C and 60°C]
Short Time Overload	±(0.3%) 5 X power rating (5 sec.)
Moisture Resistance	±(0.5%) 40°C, 95% RH, DC100V case to terminal (500 hours)
Thermal Shock	±(0.2%) 65°C 30 minutes, ±90°C 30 minutes 25 cycles
Vibration	±(0.2%) 10Hz-55Hz-10Hz (1 minute), 2 hours each direction
Moisture Load Life	±(0.5%) 40°C, 95% RH, 0.1X Power rating 1.5 hours on, 30 minutes off (500 hours)
Load Life	±(0.5%) Power rating 1.5 hours on, 30 minutes off (500 hours)
Stability	±(0.1%) Battery testing time, 1 hour



### Dimensions

Model	Dimensions [mm]					
	L1±1.5	L2±1.5	L3±2	W1±0.5	W2±0.5	H±0.5
IRHF 300	196	215	275	60	40	30
IRHF 200	146	165	225	60	40	30
IRHF 100	152	165	185	41		22
IRHF 80	137	150	170	41		22

