

IRH Series (50W ~500W)

Metal Clad Wire Wound Resistors for Automobile



**Automotive Grade
AEC-Q200**

- Excellent Stability
- Impact Resistance
- Good Heat Dissipation
- Easy Installation
- Custom Leads Available
- Wire Wound Technologies
- Power Ratings From 60 to 500 Watts
- Non-Inductive Winding Available
- Tolerances of 1%, 5%, or 10%
- Compact Packaging

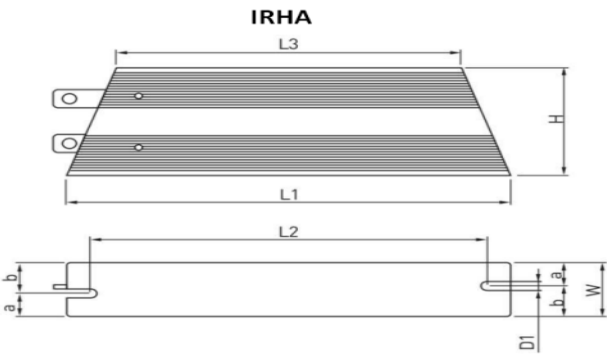
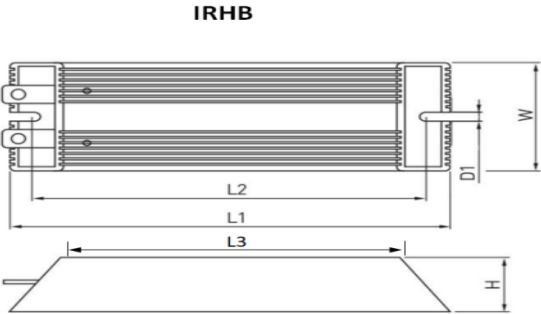
■ SPECIFICATIONS

Test item	Test Condition	Test time	Reference
High Temperature Exposure)	150°C	1,000hr	MIL-STD-202 Method 108
Temperature Cycle	(-55 ~ 150)°C	1hr/cycle, 1,000cycle = 1,000hr	JESD22-A104
Biased Humidity	85°C, 85%R.H.	1,000hr	MIL-STD-202 Method 103
Operational Life	150°C	1,000hr	MIL-STD-202 Method 108
Mechanical Shock	100G, 6ms, 3Time/6-axis	-	MIL-STD-202 Method 213
Vibration Test	(10~2,000) Hz, 5G, 4hr each axis, 3 axes total	-	MIL-STD-202 Method 204
Resistance to Soldering Heat	(260±5)°C,	-	MIL-STD-202 Method 210
Solderability	(235±5)°C,	(5±0.5)s	J-STD-002
Resistance to Solvent	* Solvent 3 1. Solvent A) Isopropyl Alcohol : Mineral Spirits = 1 : 3 2. Solvent C) Terpene Defluxer 3. Solvent D) Water : Propylene glycol monomethyl ether Monoethanolamine = 42 : 1 : 1	-	MIL-STD-202 Method 215
Terminal Strength	1. Wire Type : Pull Test / Force 40N (Nominal cross-sectional area≥1.20mm ²) 2. Flat pin Type	-	MIL-STD-202 Method 211
Withstand voltage test	2500Vac	60sec	AEC-Q200
Insulation resistance	1000VDC / 1000MΩ	60sec	AEC-Q200
ESD	Direct Contact(6kV) ~ Air Discharge(12~25kV)	-	AEC-Q200-002

■ RATINGS

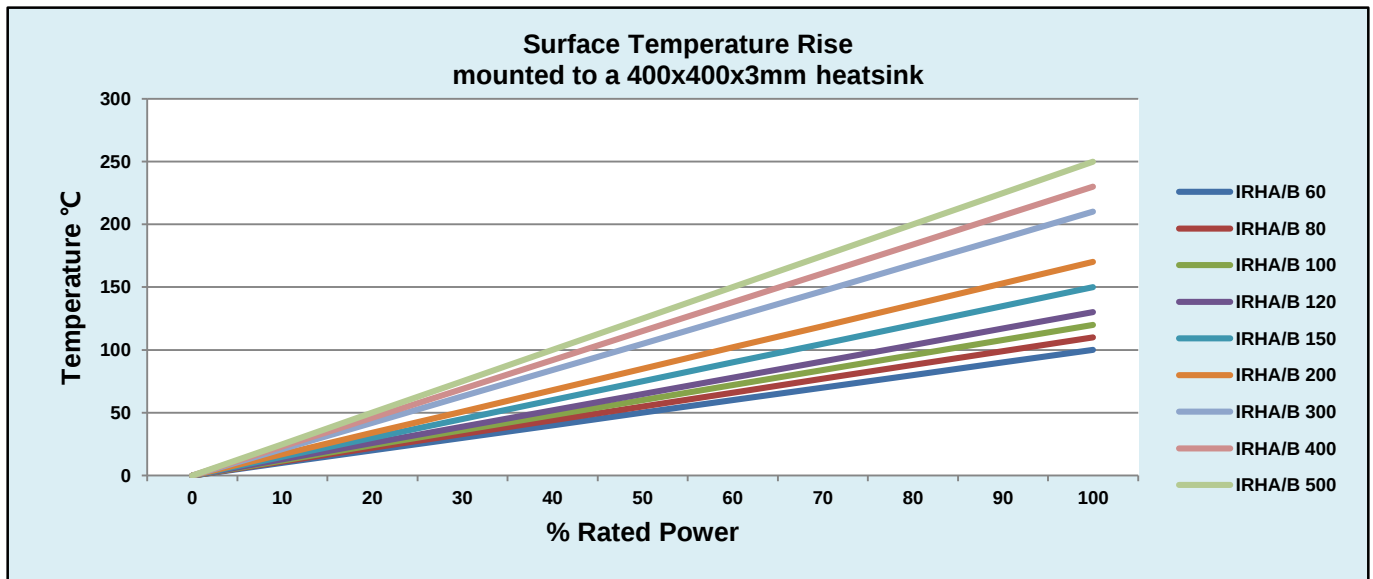
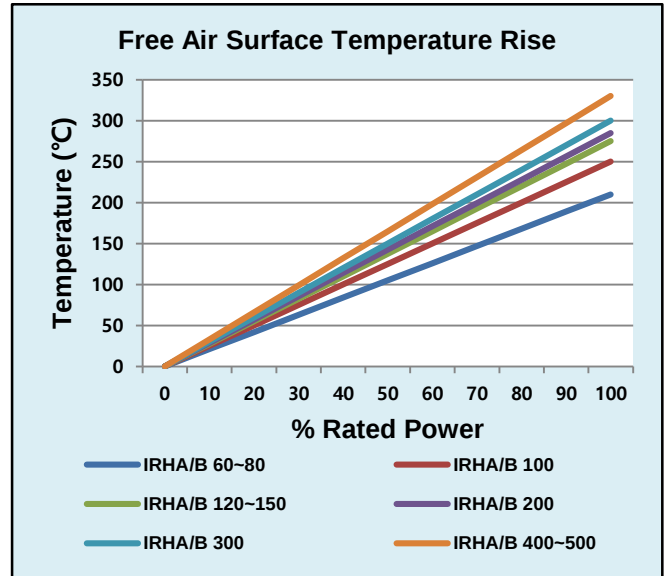
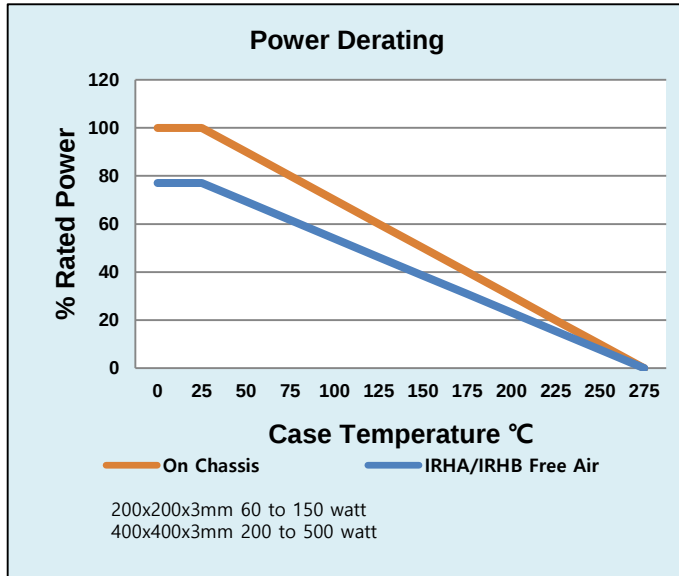
TYPE	Rated Power		Resistance Range(Ω)		Resistance Tolerance
	On Heatsink	In Free Air	Inductive	Non-Inductive	
IRHA / IRHB 60	60W	50W	0.1~1K	0.1~56	$\pm 0.5\%$ (D) $\pm 1.0\%$ (F) $\pm 2.0\%$ (G) $\pm 5.0\%$ (J) $\pm 10\%$ (K)
IRHA / IRHB 80	80W	64W	0.1~1K	0.1~110	
IRHA / IRHB 100	100W	80W	0.1~1.1K	0.1~240	
IRHA / IRHB 120	120W	96W	0.1~1.3K	0.1~300	
IRHA / IRHB 150	150W	120W	0.1~1.3K	0.1~390	
IRHA / IRHB 200	200W	140W	0.1 ~1.6K	0.1~1K	
IRHA / IRHB 300	300W	210W	0.1~2.2K	0.1~1.5K	
IRHA / IRHB 400	400W	240W	0.1~4.3K	0.1~2.2K	
IRHA / IRHB 500	500W	300W	0.1~6.8K	0.1~3K	

■ DIMENSIONS



TYPE	DIMENSIONS(mm)								Terminal Spec.(mm)	Weight(g)
	L1 ± 2	L2 ± 2	L3 ± 2	W ± 0.5	H ± 0.5	D1 ± 0.3	a ± 0.5	b ± 0.5		
IRHA / B 60W	100	87	60	(A)22 (B)41	(A)41 (B)22	4.3	7.8	10	0.8t , Width 6.35mm	125
IRHA / B 80W	150	137	110	(A)22 (B)41	(A)41 (B)22	4.3	7.8	10	0.8t , Width 6.35mm	200
IRHA / B 100W	165	152	125	(A)22 (B)41	(A)41 (B)22	4.3	7.8	10	0.8t , Width 6.35mm	240
IRHA / B 120W	182	169	142	(A)22 (B)41	(A)41 (B)22	4.3	7.8	10	0.8t , Width 6.35mm	270
IRHA / B 150W	210	197	170	(A)22 (B)41	(A)41 (B)22	4.3	7.8	10	0.8t , Width 6.35mm	340
IRHA / B 200W	165	146	125	(A)30 (B)60	(A)60 (B)30	5.3	10.4	14.6	2t , Width 10mm	450
IRHA / B 300W	215	196	175	(A)30 (B)60	(A)60 (B)30	5.3	10.4	14.6	2t , Width 10mm	610
IRHA / B 400W	265	246	225	(A)30 (B)60	(A)60 (B)30	5.3	10.4	14.6	2t , Width 10mm	870
IRHA / B 500W	335	316	295	(A)30 (B)60	(A)60 (B)30	5.3	10.4	14.6	2t , Width 10mm	950

■ SURFACE TEMPERATURE INCREASE VERSUS POWER



■ HOW TO ORDER

IRHA100	W/N	50Ω	J
TYPE	WINDING METHOD W : Inductive Type N : Non- Inductive Type	NOMINAL RESISTANCE	RESISTANCE TOLERANCE

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