

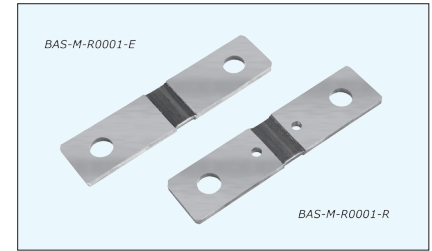
**ISA-WELD SHUNT RESISTORS**

**BAS**

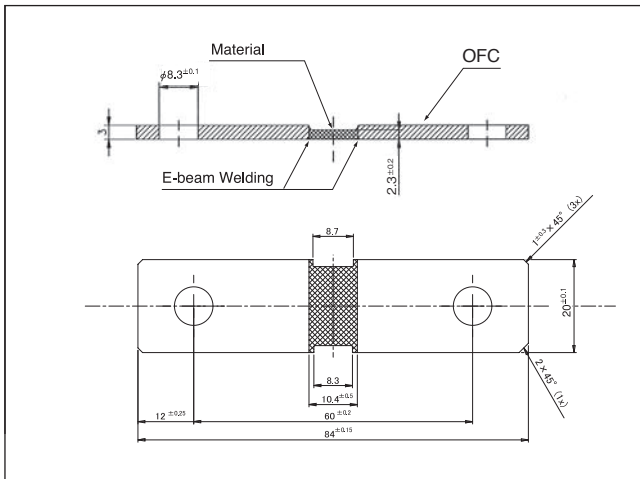
Max. Current (Permanent) 350A

Type	Load Capacity (W) *	Resistance (Ω)	Tolerance (%)	Temp. Coefficient (20°C~60°C)	Operating Temp.	Internal Heat Resistance (°C/W)a-b	Weight (g)
BAS-M-R0001	15	0.1m	±5	±50ppm/°C	-40~+170	2	40
BAS-M-R0002	10	0.2m				3	
BAS-M-R0005	4	0.5m				7	

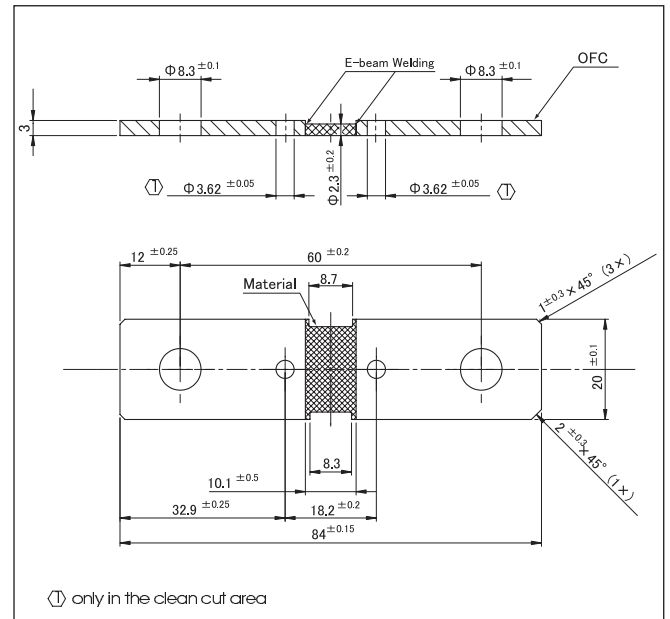
\* Referring to power derating curve. Proper measures for heat radiation should be taken.



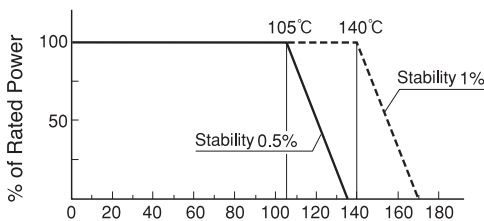
**Shape & Dimensions**



**Version R**

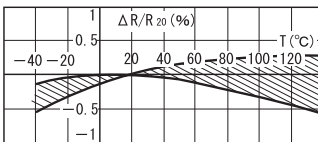


**Power Derating Curve**

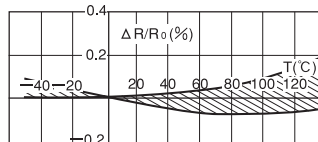


**CAUTION** Terminal Temperature(°C)

Resistance Change Versus Temp. (ISA Manganin)



Resistance Change Versus Temp. (Alu-Chrom)



**How to order**

BAS-M-R0001 — E  
 Type Terminal  
 E : Version E  
 R : Version R

Standard Resistance (Stock)

BAS-M-R0001 (0.1mΩ ±5%)

**Performance**

Parameters	Test Conditions	Specification
Thermal Shock	-65°C, 25°C, 125°C, 25°C 25cycles	±0.2%
Over load	5×Wattage Rating 5sec	±0.2%
Resistance to Solvents	IPA 3min	No damage
Low Temp. Storage and Operation	MIL-R-26E	±0.1%
Resistance to Soldering Heat	260°C 10sec	±0.2%
Moisture Resistance	Near 100%RH, +25°C, +65°C, -10°C 10cycles (10days)	±0.2%
Shock	50g's, 11ms	±0.2%
Vibration, High Frequency	MIL-STD-202 Method 204D-B	±0.2%
Load Life (Terminal Temp. Max. 105°C)	1.5Hr ON 0.5Hr OFF 2000Hr	±0.5 %
Load Life (Terminal Temp. Max. 140°C)	1.5Hr ON 0.5Hr OFF 2000Hr	± 1 %
Storage Life at Elevated Temp.	MIL-STD-202 method 108A-F	±0.3%
High Temperature Exposure	140°C, 2000Hr	±0.5%
Current Noise	MIL-STD-202 method 308	±0.01%
Voltage Coefficient	MIL-STD-202 method 309	linearity error less than 120dB
Thermal EMF (μV / °C)	0~60°C	0.6μV/°C max
Frequency Characteristic	Inductance	<3nH

