

# IRBT (Metal Clad Wire Wound Resistors for Automobile)

## [Preliminary]

The IRBT models are metal clad, wire wound resistors for Vehicle, EV(Electric Vehicle), HEV(Hybrid Electric Vehicle), PHEV(Plug-in Hybrid Electric Vehicle) .  
These models controls inrush current through PRA(Power Relay Assembly)



### GENERAL SPECIFICATIONS

Model	Rated Power [W]	*Resistance Range[Ω]	Tolerance [%]
	Forced cooling		
IRBT60	60	1 ~ 1K	J[±5%] K[±5%]

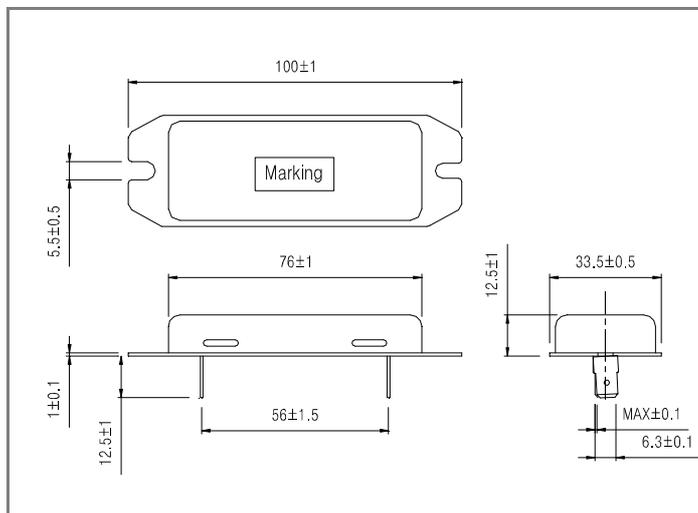
\* Also available in extended ohmic ranges

### CHARACTERISTICS

Values in [] mean Change in Ω After Test

Test	Condition		
Temperature Range	- 55 ~ +155°C		
Insulation Resistance	20MΩ minimum		
Dielectric Strength	AC1000V for 1min (Max leakage current : 2mA)		
TCR	Max ± 260ppm/°C		
Short Time Overload	±[2%+0.05Ω]	5 X Power rating, 5 sec	
Moisture Resistance	±[3%+0.05Ω]	40°C / RH95% 500 Hours, DC100V Case to Terminal	
Thermal Shock	±[3%+0.05Ω]	Power Rating 30min, -25°C 15Min	
Vibration	±[1%+0.05Ω]	MIL-STD-202, 204 methods tested (10HZ gradually increase to 2000HZ)	
Shock	±[0.2%+0.05Ω]	MIL-STD-202, 213 methods tested (100g, pulse duration: 6ms, Sawtooth wave.)	
Moisture Load Life	±[3%+0.05Ω]	40°C / RH95% Power rating x 0.1, 1.5 Hours On, 0.5 Hours Off for 1000 Hours +65°C, +25°C, -10°C / RH95% power rating x 0.1, 1.0 Hours On, 1.0 Hours Off for 2500 Hours	
Load Life	±[3%+0.05Ω]	Power rating 1.5 Hours on, 30 min Off 1000 Hours	

### DIMENSIONS[mm]



### ORDERING PROCEDURE EXAMPLE

IRBT	60	10Ω	J
Model	Rated Power	Resistance	Tolerance