IRBT
Metal Clad Wire Wound Resistors
Automotive[Preliminary]

The IRBT models are metal clad, wire wound resistors for vehicles, EVs(Electric Vehicle), HEVs(Hybrid Electric Vehicle), PHEVs(Plug-in Hybrid Electric Vehicle) . These models control inrush current through PRAs.(Power Relay Assembly)

GENERAL SPECIFICATIONS

Model	Rated Power [W] Forced cooling	*Resistance Range[Ω]	Tolerance [%]
IRBT60	60	1 ~ 1K	J[±5%] K[±10%]

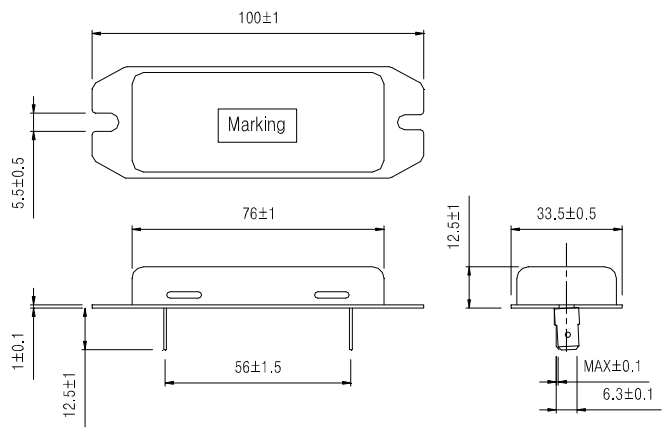
*** Also available in extended ohmic ranges**

CHARACTERISTICS

Values in [] mean Change in Ω After Test

Test	Condition	
Temperature Range		- 55 ~ +155℃
Insulation Resistance		20MΩ minimum
Dielectric Strength		AC1000V for 1min (Max leakage current : 2mA)
TCR		Max ± 260ppm/℃
Short Time Overload	±[2%+0.05Ω]	5 X Power rating, 5 sec
Moisture Resistance	±[3%+0.05Ω]	40℃ / RH95% 500 Hours, DC100V Case to Terminal
Thermal Shock	±[3%+0.05Ω]	Power Rating 30min, -25℃ 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℃ / RH95% Power Rating x 0.1, 1.5 Hours On, 0.5 Hours Off for 1000 Hours
		+65℃, +25℃, -10℃ / 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