

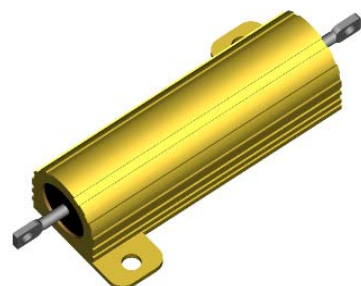


TMC

ALUMINUM HOUSED CHASSIS MOUNT RESISTORS

5 WATT THRU 50 WATT

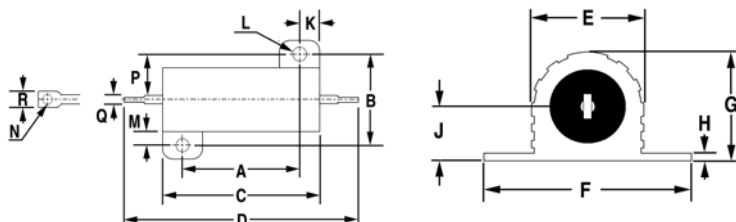
Huntington Electric's high power aluminum housed resistors use centerless ground ceramic cores for uniform heat distribution. Molded in a special high temperature material and mounted in an extruded aluminum finned housing, these designs provide maximum power dissipation and reliability. They have tinned copperweld leads for solderability, and meet or exceed MIL-R-18546, including "N" characteristic, and MIL-R-39009.



POWER RATING is based on
a) full power at 25 °C
b) MAX hotspot of 275 °C
c) 1% MAX ΔR over 1000 hours operation
d) mounting on proper heatsink.

STANDARD TYPE	MIL-R-39009/ MIL-R-18546	POWER (W) HEI	POWER (W) MIL	R MIN	R MAX	RATED VOLTAGE
TMC -5	RER-60/RE-60	7.5	5	0.01	22K	160
TMC-10	RER-65/RE-65	12.5	10	0.01	47K	265
TMC-25	RER-70/RE-70	25	20	0.01	90K	550
TMC-50	RER-75/RE-75	50	30	0.01	250K	1250

Other power ratings are available to 250 Watts. Please consult factory for detail specifications.



ENVIRONMENTAL SPECIFICATIONS

TEST	MIL-R-18546
Load Life	± (1% + .05Ω) > ΔR
Moisture Resistance	± (1% + .05Ω) > ΔR
Resistor Temperature Characteristic	± 50 PPM/°C up to 2000Ω
Thermal Shock	± (.5% + .05Ω) > R
Short Time Overload	± (.5% + .05Ω) > R
Dielectric	± (.2% + .05Ω) > R
High Temp. Storage	± (.5% + .05Ω) > R
Shock	± (.2% + .05Ω) > R
Vibration	± (.2% + .05Ω) > R
Terminal Strength	± (.2% + .05Ω) > R

DIMENSION INFORMATION

TYPE	A ±.005 (0.1)	B ±.005 (0.1)	C ±.031 (0.8)	D ±.062 (1.6)	E ±.015 (0.4)	F ±.015 (0.4)	G ±.015 (0.4)	H ±.010 (0.2)	J ±.010 (0.2)	K ±.010 (0.2)	L ±.005 (0.1)	M ±.015 (0.4)	N ±.005 (0.1)	O ±.062 (1.6)	P ±.031 (0.8)	Q AWG	R ±.032 (0.8)
TMC-5	.444 (10.8)	.490 (12.4)	.600 (15.2)	1.125 (28.6)	.334 (8.5)	.646 (16.4)	.320 (8.1)	.065 (1.7)	.140 (3.6)	.078 (2.0)	.093 (2.4)	.078 (2.0)	.050 (1.3)	.266 (6.8)	.245 (6.3)	16	.085 (2.2)
TMC-10	.562 (14.3)	.625 (15.9)	.750 (19.1)	1.375 (34.9)	.430 (10.9)	.800 (20.3)	.400 (10.2)	.075 (1.9)	.190 (4.8)	.093 (2.4)	.093 (2.4)	.102 (2.6)	.086 (2.2)	.312 (7.9)	.312 (7.9)	12	.140 (3.6)
TMC-25	.719 (18.3)	.781 (19.8)	1.062 (27.0)	1.938 (49.2)	.530 (13.5)	1.080 (27.4)	.560 (14.2)	.085 (2.2)	.260 (6.6)	.172 (4.4)	.125 (3.2)	.125 (3.2)	.086 (2.2)	.438 (11.1)	.438 (11.1)	12	.140 (3.6)
TMC-50	1.563 (39.7)	.844 (21.4)	1.968 (50.0)	2.781 (70.6)	.615 (15.6)	1.140 (29.0)	.615 (15.6)	.085 (2.2)	.300 (7.6)	.196 (5.0)	.125 (3.2)	.125 (3.2)	.086 (2.2)	.438 (11.1)	.438 (11.1)	12	.140 (3.6)
TMC-50L	Specifications and dimensions same as TMC-50 except 12 AWG flexible leads and 1000V working voltage.																

ENGINEERING DATA AND ORDER OPTIONS

Temperature Coefficient
of Resistance:

1 to 10Ω ±50ppm/°C, > 10Ω ±20 ppm/°C
(Call Factory for < 1 Ω)

Dielectric Strength:

Greater than 1000 VAC for 5W
2500 VAC for 10, 25, 50 W

Operating Temp Range:

-55°C to 275 °C. Derating is required for reduced chassis mounting area and for high ambient temperatures (see chart.)

Heat Sink Requirements:

4" x 6" x .040" aluminum chassis for 5, 10W
5" x 7" x .040" aluminum chassis for 25, 50W

WATTAGE DERATING CHART FOR HIGHER AMBIENT TEMPERATURES

