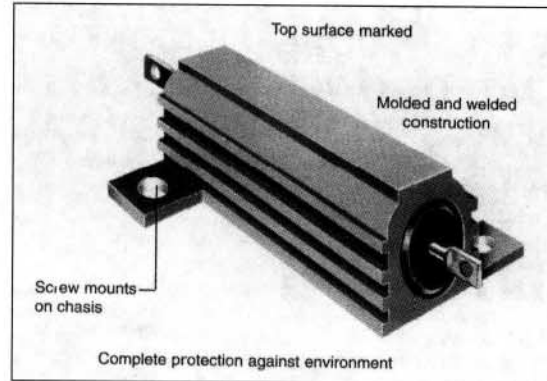


# ALUMINUMHOUSED CHASSIS MOUNT RESISTOR



TMC-5, 10, 25, 50

• Low Temperature Coefficient:  $\pm 20\text{ppm}/^\circ\text{C}$  Standard  
 MEGASTAR-OHM'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:**

Based on:

- (a) full power operation at 25°C
- (b) maximum hotspot 275°C
- (c) 1% maximum  $\Delta R$  in 1000 - hour load life
- (d) mounting on proper heat sink

## SPECIFICATIONS

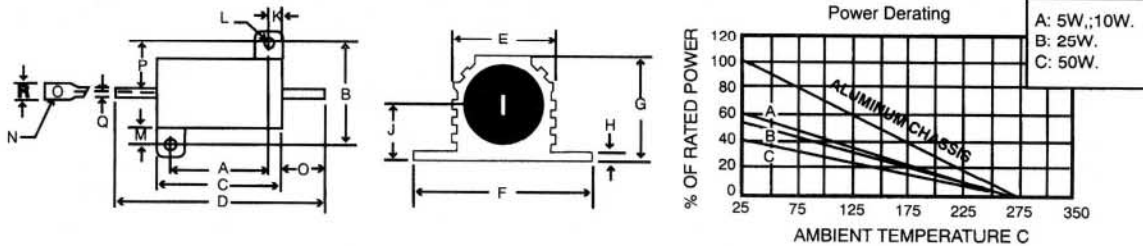
Standard Type	MIL-R-39009/ MIL-R-18546	Power Rating (W)		Resistance ( $\Omega$ )		Working Voltage
		MEI	MIL	Min.	Max.	
TMC-5	RER-60-/RE-60	7.5	5	0.01	22K	160
TMC-10	RER-65/RE-65	12.5	10	0.01	47K	265
TMC-25	RER-70/RE-70	25	20	0.01	90K	550
TMC-50	RER-75/RE-75	50	30	0.01	250K	1250

(Other power ratings are available to 250 watts. Please consult factory for detail specifications.)

**Temperature Coefficient of Resistance:** 1 to 10:  $\pm 50\text{ppm}/^\circ\text{C}$ ; > 10:  $\pm 20\text{ppm}/^\circ\text{C}$  (Call factory for <1)

**Dielectric Strength:** Greater than 1000 VAC for 5 (10-2500 VAC 25, 50; 2500 VAC 25W & 50W.)

**Operating Temperature 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"x6"x2"x.040" aluminum chassis for 5w., 10w.; 5"x7"x.040" for 25., -50.



## DIMENSIONS: (Units=inches)

Type	A	B	C	D	E	F	G	H	J	K	L	M	N	O	P	Q	R
	$\pm .005"$	$\pm .005"$	$\pm .031"$	$\pm .062"$	$\pm .015"$	$\pm .015"$	$\pm .015"$	$\pm .010"$	$\pm .010"$	$\pm .010"$	$\pm .005"$	$\pm .015"$	$\pm .005"$	$\pm .062"$	$\pm .031"$	AWG	$\pm .032"$
<b>TMC-5</b>	.444	.490	.600	1.125	.334	.646	.320	.065	.140	.078	.093	.078	.050	.266	.245	16	.085
<b>TMC-10</b>	.562	.625	.750	1.375	.430	.800	.400	.075	.190	.093	.093	.102	.086	.312	.312	12	.140
<b>TMC-25</b>	.719	.781	1.062	1.938	.530	1.080	.560	.085	.260	.172	.125	.125	.086	.438	.391	12	.140
<b>TMC-50</b>	1.563	.844	1.968	2.781	.615	1.140	.615	.085	.300	.196	.125	.125	.086	.438	.422	12	.140
<b>TMC-50L</b>	Specifications and dimensions same as TMC-50 except 12 AWG flexible leads and 1000V working voltage.																

ORDERING INFORMATION

TMC-5 - 0.1 - 1%

TYPE

RESISTANCE VALUE

TOLERANCE

**ENVIRONMENTAL SPECIFICATIONS**

TEST	MIL - R - 18546
Load Life	$\pm(1\%+.05\Omega)\Delta R$
Moisture Resistance	$\pm(1\%+.05\Omega)\Delta R$
Resistance Temperature	$\pm 50\text{PPM TO } 2000\Omega$
Characteristic	$\pm 30\text{PPM over } 2000\Omega$
Thermal Shock	$\pm(.5\%+.05\Omega)\Delta R$
Momentary Overload	$\pm(.5\%+.05\Omega)\Delta R$
Dielectric	$\pm(.2\%+.05\Omega)\Delta R$
High Temp Storage	$\pm(.5\%+.05\Omega)\Delta R$
Shock	$\pm(.2\%+.05\Omega)\Delta R$
Vibration	$\pm(.2\%+.05\Omega)\Delta R$
Terminal Strength	$\pm(.2\%+.05\Omega)\Delta R$