

SURFACE MOUNT THICK FILM RESISTOR NETWORKS RMG

LEADFREE
RoHS Compliant

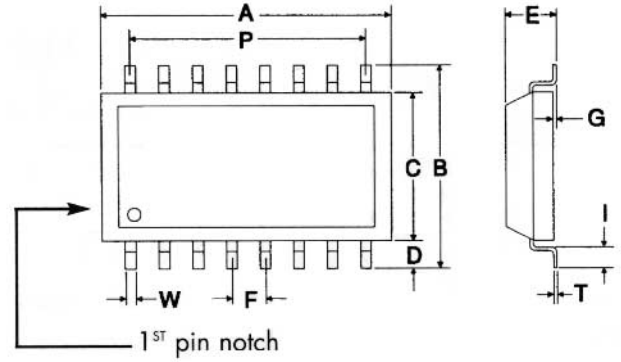
RMG

Features

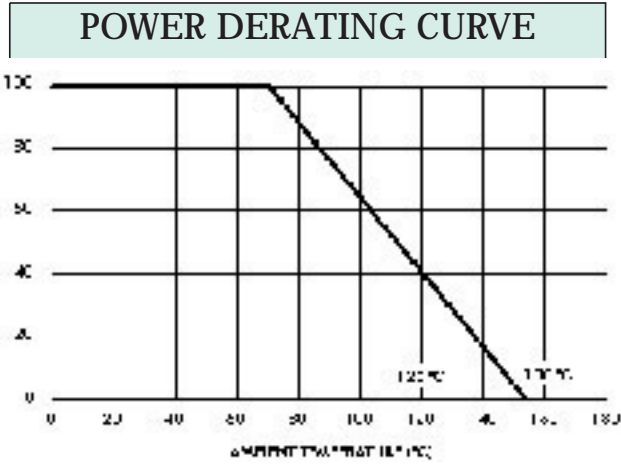
- MEGASTAR-OHM RMG Series utilize a high quality metal glazed resistive element sealed in a molded package.
- Thick film, small outline package
- 16 pins in A circuits types
- Suits high density mounting with only 1.27mm lead spacing.

POWER DERATING CURVE

- For resistors operated in ambient temperatures above 70° C, power rating must be derated in accordance with the curve.



PERFORMANCE CHARACTERISTICS	
Electrical	RMG
Number of Terminals	16
Overall Power Rating (Watts)	1/2 @ 70°C
Maximum Working Voltage	50V
Resistance Temperature Coefficient	±200ppm/°C (D)
Resistance Range	33 - 2.2M
Tolerance %	±5(J), ±2(G)
Operating Temperature Range	-55°C to +125°C
Environmental	Per MIL-R-83401D
Moisture Resistance	±(1.0%+0.05)
Thermal Shock	±(0.5%+0.05)
Load Life	±(2.0%+0.05)
Resistance to Soldering Heat	±(0.5%+0.05)
Terminal Strength	±(0.5%+0.05)
Dielectric Withstand Charge	±(0.5%+0.05)
Short Time Overload	±(0.5%+0.05)



SCHEMATICS

Code (circuit type)	I-Isolated	P-Common	L-Ladder	D-Voltage Divider
Circuit Diagrams				
Element power rating (watts)	1/32 watt @ 70°C	1/32 watt @ 70°C	1/24 watt @ 70°C	1/24 watt @ 70°C
Overall power rating (watts)	1/2 watt @ 70°C	1/2 watt @ 70°C	1/2 watt @ 70°C	1/2 watt @ 70°C
		Also known as: Common or parallel type circuit	Applied voltage: 20Vdc max. Linearity: ±1/2 LSB Type: 4 to 8 bits	

Part Numbering System

RMG	I	102	J	T
Product Type	Circuit Code	Nominal Resistance	Tolerance	Packaging
	Code Details	3 digit code 2 first significant digits plus multiplier	Code %	Code Details
	P Common	E24 (33 - 2.2M)	G ±2%	T 32mm paper tape (2000/reel)
	D Voltage Divider		J ±5%	TE 24mm plastic tape (2000/reel)
	I Isolated			M Magazine tube (40/tube)
	L Ladder			J J-hook terminals (gull wing)

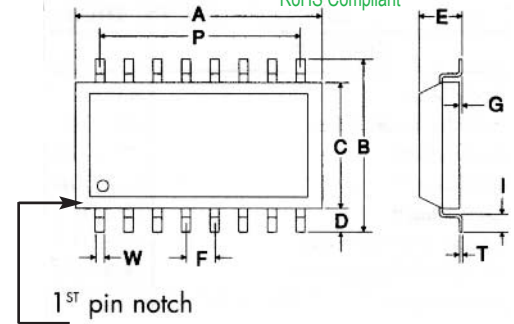


RMT

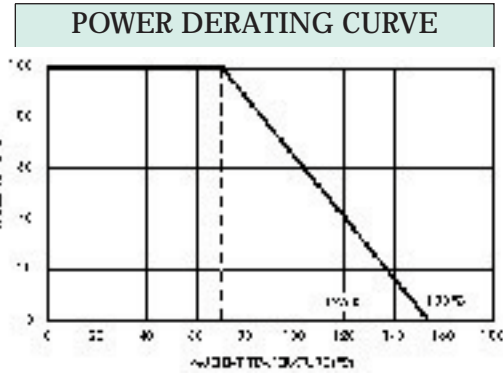
Features

- MEGASTAR-OHM RMT Series use a sputtered tantalum alloy film to assure high stability and reliability through high temperature heat treatment.
- Suits high density mounting with only 1.27mm lead spacing.

LEADFREE
RoHS Compliant



PERFORMANCE CHARACTERISTICS			
Electrical		RMT	
Number of Terminals	16		
Overall Power Rating (Watts)	1/2 @ 70°C		
Maximum Working Voltage	100V		
Resistance Temperature Coefficient	±100ppm/°C (K)	±50ppm/°C (C)	±25ppm/°C (E)
Resistance Range	47 - 100K	100 - 51K	100 - 51K
Tolerance %	±1(F), ±0.5(D), ±0.25(C)		
Operating Temperature Range	-55°C to +155°C		
Environmental		Per MIL-R-83401D	
Moisture Resistance	±(1.0%+0.05)		
Thermal Shock	±(0.5%+0.05)		
Load Life	±(1.0%+0.05)		
Resistance to Soldering Heat	±(0.25%+0.05)		
Terminal Strength	±(0.25%+0.05)		
Dielectric Withstand Charge	±(0.25%+0.05)		
Short Time Overload	±(0.25%+0.05)		



SCHEMATICS		
Code (circuit type)	I-Isolated	P-Common
Circuit Diagrams		
Element power rating (watts)	1/32 watt @ 70°C	1/16 watt @ 70°C
Overall power rating (watts)	1/2 watt @ 70°C	1/2 watt @ 70°C

Part Numbering System

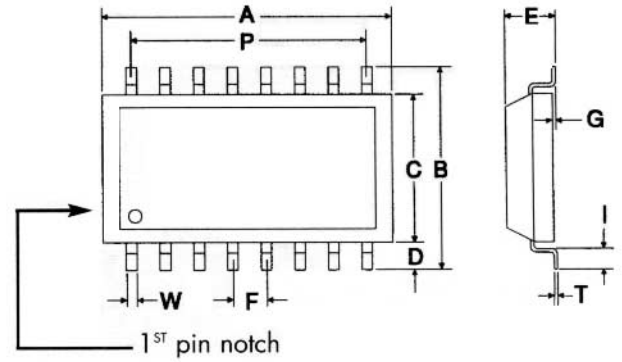
Product Type	Schematics	Resistance value	Temp. Coefficient	Tolerance	Packaging
RMT	I	1002	C	F	T
	Code Details	Code %	Code T.C.	Code %	Code Details
	I Isolated	47R0 47	T ±10ppm/°C	C ±0.25%	T 32mm paper tape (2000/reel)
	P Common	4751 4.75K	E ±25ppm/°C	D ±0.5%	TE 24mm plastic tape (2000/reel)
		1002 10K	C ±50ppm/°C	F ±1%	M Magazine tube (40/tube)
		5112 51.1K	K ±100ppm/°C		J J-hook terminals

SURFACE MOUNT THICK & THIN FILM RESISTOR NETWORKS



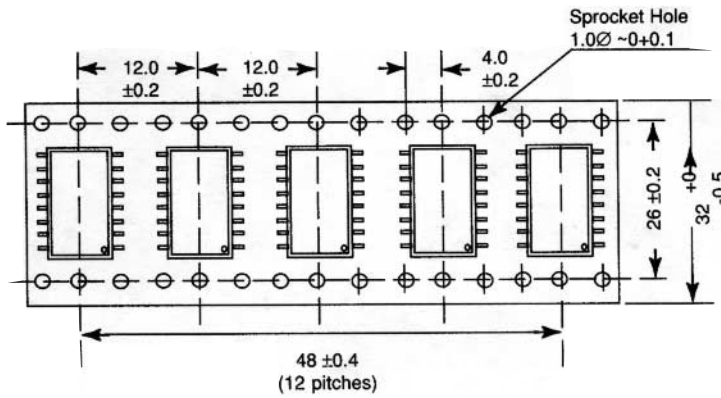
RMG, RMT

DIMENSIONS: Inches (mm)	
FEATURE	DIMENSIONS
A-Body Length	.43±.01 (11.0±0.2)
B-Lead Tip to Lead Tip	.30±.01 (7.7±0.2)
C-Body Width	.22(5.7) max.
D-Lead Length	.04±.004 (1.0±0.1)
E-Over Height	.07±.01 (1.7±0.2)
F-Lead to Lead Spacing	.05±.01 (1.27±0.2)
G-Body to PCB Spacing	.004±.002 (0.10±0.05)
I-Lead Footprint	.01 (0.3) min.
T-Lead Thickness	.006/.008 (0.15/0.20)
P-Lead to Lead Overall	.35±.01 (8.89±0.2)
W-Lead Width	.016 (0.4)

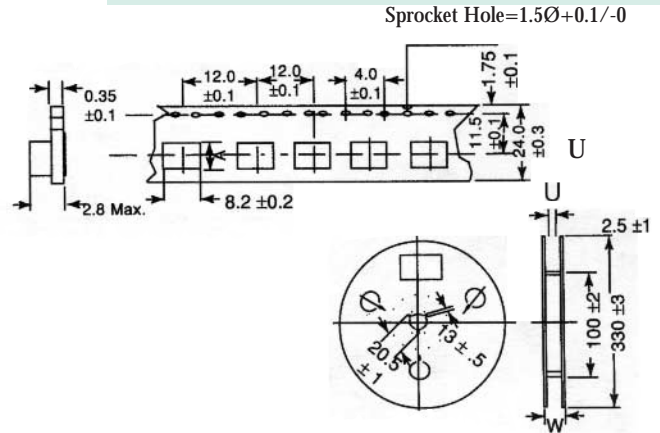


PACKAGING INFORMATION: (in mm)

32mm Paper Tape (T)

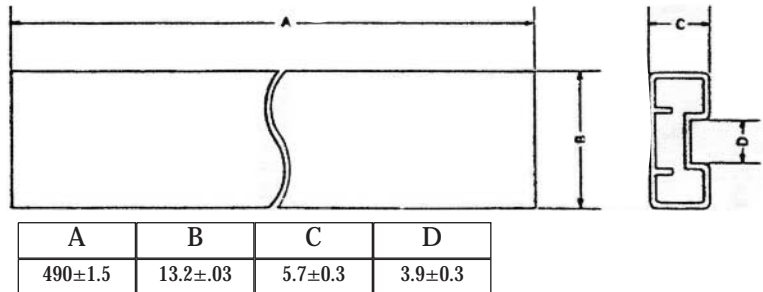


24mm Embossed Plastic Tape (TE)



Type of Paper	Dim. U	Q'ty per Reel
32mm Paper	34.0	2000 pcs.
24mm Plastic	24.5	2000 pcs.
Magazine Pack	-----	40/tube
Type	# pins	Dim. A=±0.2
RMG & RMT	16	11.7

Magazine Tube (M)



MARKING DETAILS

RMG Series	RMT Series
<p>THRMGP</p>	<p>THRMTI</p>
Example of P-Type circuit "common"	Example of I-Type circuit "isolated"