LEAD FREE

RMT16S, RMT16, RMT10, RMT18, RMT14, RMT12, RMT01

Features

Low TCR
High precision (±0.01% to ±0.5%)
Low current noise
High Stability

ELECTRICAL CHARACTERISTICS							
Style	RMT16S (0402)	RMT16 (0603)	RMT10 (0805)	RMT18 (1206)	RMT14 (1210)	RMT12 (2010)	RMT01 (2512)
Power Rating at 70°C	1/16W	1/16W	1/10W	1/8W	1/4W	1/2W	3/4W
Operating Temperature Range	-55±c to +125°C						
Derated to 0 Load at	125°C						
Maximum Working Voltage	25V	50V	100V	150V	150V	150V	150V
Maximum Overload Voltage	100V	100V	200V	250V	300V	300V	300V
Deilectric Withstanding Voltage	100V	100V	250V	250V	400V	400V	400V
Resistance Range	10Ω - 100KΩ	10Ω - 330KΩ	10Ω - 1MΩ	10Ω - 1MΩ	10Ω - 1MΩ	10Ω - 1MΩ	10Ω - 1MΩ
Temperature Coefficient	±5ppm/°C; ± 10Ppm/°C; ±15ppm/°C; ±25ppm/°C; ±50ppm/°C						

ENVIRONMENTAL CHARACTERISTICS		
PERFORMANCE TEST	TEST METHOD	RATING
Temperature Coefficient (by type)	MIL-STD-202F, Method 304 -55°C to +125°C	± 10-50ppm/°C
Thermal Shock	MIL-STD-202F, Method 107 5 cycles, -55°C to +125°C	± (0.5%+0.05Ω)
Low Temperature Operation	MIL-R55342D, Para.4.7.4 One Hour at -55° followed by 45 minutes RCWV	± (0.5%+0.05Ω)
Short Time Overload	MIL-R-55342D, Para.4.7.5 2.5 times RCWV for 5 seconds	± (0.5%+0.05Ω)
High Temperature Exposure	MIL-R-55342D, Para.4.7.6 125°C for 100 hours	± (0.5%+0.05Ω)
Resistance to Soldering Heat	MIL-R-55342D, Para.4.7.7 Soldered to test board at 260°C for 10 seconds	± (0.5%+0.05Ω)
Moisture Resistance	MIL-STD-202F, Method 106 10 cycles, Total 240 hours	± (0.5%+0.05Ω)
Life	MIL-STD-202F, Method 108A 1000 hours at 70°C RCWV intermittent	± (0.5%+0.05Ω)
Solderability	MIL-STD-202F, Method 208 230°C for 5 seconds	95% min. coverage
Bending Strength	Unit mounted in center of 90mm board length, deflected 5mm in either direction for 10 seconds	± (0.5%+0.05Ω)

THIN FILM CHIP RESISTORS RMT

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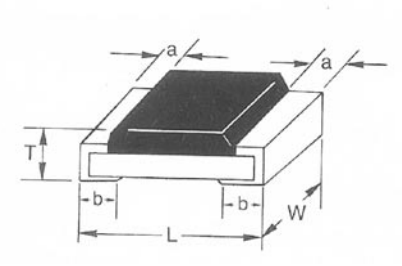
DIMENSIONS						
Style	Size code	L	W	T	a	b
RMT16S	0402	1.00 ± 0.10	0.50 ± 0.05	0.30 ± 0.05	0.25 ± 0.10	0.20 ± 0.10
RMT16	0603	1.60 ± 0.10	0.80 ± 0.10	0.45 ± 0.10	0.30 ± 0.15	0.30 ± 0.15
RMT10	0805	2.00 ± 0.15	1.25 ± 0.15	0.55 ± 0.10	0.30 ± 0.20	0.40 ± 0.25
RMT18	1206	3.10 ± 0.15	1.55 ± 0.15	0.55 ± 0.10	0.50 ± 0.20	0.40 ± 0.25
RMT14	1210	3.10 ± 0.15	2.60 ± 0.15	0.55 ± 0.10	0.50 ± 0.20	0.50 ± 0.25
RMT12	2010	4.90 ± 0.15	2.40 ± 0.15	0.55 ± 0.10	0.60 ± 0.20	0.50 ± 0.25
RMT01	2512	6.35 ± 0.15	3.20 ± 0.15	0.55 ± 0.10	0.60 ± 0.20	0.55 ± 0.25



PART NUMBERING SYSTEM:

RMT 10 - 10R D E

Type
RMT

Size	
Code	Wattage(Size)
16S	1/16W (0402)
16	1/16W (0603)
10	1/10W (0805)
18	1/8W (1206)
14	1/4W (1210)
12	1/2W (2010)
01	3/4W (2512)

Resistance Tolerance	
D	±0.5%
B	±0.1%
C	±0.25%
A	±0.05%
T	±0.01%

TCR	
S	±5ppm/°C
T	±10ppm/°C
H	±15ppm/°C
E	±25ppm/°C
C	±50ppm/°C

3 DIGIT CODE (5% Tolerance)							
Resistance Value							
Code	10R	470	101	102	103	104	105
Values	10Ω	47Ω	100Ω	1KΩ	10KΩ	100KΩ	1MΩ

5% Tolerance: First two digits are significant figures and third digit is number of zeros. Letter "R" indicates decimal values under 100 ohms.

4 DIGIT CODE (1% Tolerance)						
Resistance Value						
Code	10R0	1000	1001	1002	1003	1004
Values	10Ω	100Ω	1KΩ	10KΩ	100KΩ	1MΩ

1% Tolerance: First three digits are significant figures and fourth digit is number of zeros. Letter "R" indicates decimal values under 100 ohms.

Marking:

RMT16(0603)
RMT10(0805)
RMT18(1206)
RMT14(1210)
RMT12(2010)
RMT01(2512)

5% marking
Value=10KΩ

RMT10(0805)
RMT18(1206)
RMT14(1210)
RMT12(2010)
RMT01(2512)

1% marking
Value=10KΩ

RMT16(0603)
EIA-96
marking

1% marking
Value=12.4KΩ

RMT16S(0402)

No marking

5% Tolerance: First two digits are significant figures and third digit is number of zeros. Letter "R" indicates decimal point.
1% Tolerance: First three digits are significant figures and fourth digit is number of zeros. Letter "R" indicates decimal point.
0603 1%: EIA-96 marking
0402 no marking