

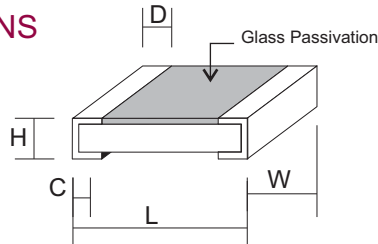
INTRODUCTION

The RMT series are thin film resistors. They feature a lower Temperature Coefficient than standard thick film types and are ideal for use in applications where temperature stability is important. These resistors are lead free. RMT series are AEC-Q200 Qualified.

CHARACTERISTICS

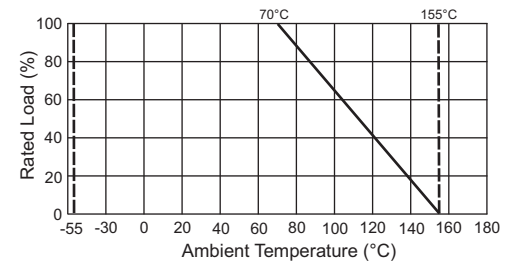
Requirements	Specification	Test Standard
Short Time Overload	±0.5%	JIS-C-5205-5.5
Thermal Shock	±0.2%	Mil-Std 202F, #108
Humidity	±0.3%	Mil-Std 202F, #103B
Solderability	95% coverage	Mil-Std 202F, #208H
Resistance to Soldering Heat	±0.5%	Mil-Std 202F, #210E
Load Life	±0.5%	Mil-Std 202F, #108A
Available Tolerances	0.01%, 0.025%, 0.1%, 0.25%, 0.5%, 1%	
Operating Temp (°C)	-55°C ~ +155°C	

DIMENSIONS



TYPE	L	W	H	I ₁	I ₂
RMT04 (0402)	1.00 ± 0.10	0.50 ± 0.05	0.30 ± 0.05	0.20 ± 0.10	0.20 ± 0.10
RMT06 (0603)	1.60 ± 0.20	0.80 ± 0.15	0.40 ± 0.10	0.30 ± 0.20	0.30 ± 0.15
RMT10 (0805)	2.00 ± 0.20	1.25 ± 0.15	0.50 ± 0.15	0.35 ± 0.15	0.35 ± 0.15
RMT12 (1206)	3.20 ± 0.20	1.60 ± 0.20	0.55 ± 0.15	0.45 ± 0.20	0.45 ± 0.20
RMT25 (1210)	3.20 ± 0.20	2.50 ± 0.20	0.55 ± 0.15	0.50 ± 0.20	0.50 ± 0.20
RMT50 (2010)	5.00 ± 0.20	2.50 ± 0.20	0.55 ± 0.10	0.60 ± 0.20	0.60 ± 0.20
RMT1WS (1218)	3.10 ± 0.10	4.60 ± 0.10	0.55 ± 0.05	0.45 ± 0.10	0.40 ± 0.10
RMT1W (2512)	6.30 ± 0.20	3.20 ± 0.20	0.55 ± 0.10	0.60 ± 0.20	0.60 ± 0.20

DERATING CURVE



STANDARD TOLERANCES AND TEMPERATURE COEFFICIENT

0.01% (T)	10ppm, 25ppm
0.025% (W)	10ppm, 25ppm
0.1% (B)	10ppm, 25ppm, 50ppm
0.25% (C)	25ppm, 50ppm
0.5% (D)	25ppm, 50ppm
1.0% (F)	25ppm, 50ppm

RATINGS & STANDARD RANGES

Type	Rated Power at 70°C	Max Working Voltage (V w)	Max Overload Voltage (Vo)	T.C.R. (PPM °C)	Resistance Range			
					T (0.01%) W (0.025%)	B(±0.1%)	C(±0.25%) D(±0.5%)	F(±1%)
RMT04 (0402)	0.063W	25V	50V	± 10 ± 25 ± 50	---	40.2Ω ~ 40.2KΩ 10Ω ~ 100KΩ 10Ω ~ 100KΩ	40.2Ω ~ 40.2KΩ 10Ω ~ 100KΩ 10Ω ~ 100KΩ	40.2Ω ~ 40.2KΩ 10Ω ~ 100KΩ 10Ω ~ 100KΩ
RMT06 (0603)	0.10W	75V	150V	± 10 ± 25 ± 50	24.9Ω ~ 100KΩ	4.7Ω ~ 100KΩ 1Ω ~ 332KΩ 1Ω ~ 4.7MΩ	4.7Ω ~ 100KΩ 1Ω ~ 332KΩ 1Ω ~ 4.7MΩ	4.7Ω ~ 100KΩ 1Ω ~ 332KΩ 1Ω ~ 4.7MΩ
RMT10 (0805)	0.125W	150V	300V	± 10 ± 25 ± 50	24.9Ω ~ 100KΩ	10Ω ~ 220KΩ 1Ω ~ 3.32MΩ 1Ω ~ 3.32MΩ	10Ω ~ 220KΩ 1Ω ~ 3.32MΩ 1Ω ~ 3.32MΩ	10Ω ~ 220KΩ 1Ω ~ 3.32MΩ 1Ω ~ 3.32MΩ
RMT12 (1206)	0.25W	200V	400V	± 10 ± 25 ± 50	24.9Ω ~ 100KΩ	10Ω ~ 1.11MΩ 1Ω ~ 2.74MΩ 1Ω ~ 2.74MΩ	10Ω ~ 1.11MΩ 1Ω ~ 2.74MΩ 1Ω ~ 2.74MΩ	10Ω ~ 1.11MΩ 1Ω ~ 2.74MΩ 1Ω ~ 2.74MΩ
RMT25 (1210)	0.25W	200V	400V	± 10 ± 25 ± 50	24.9Ω ~ 100KΩ	10Ω ~ 499KΩ 1Ω ~ 1MΩ 1Ω ~ 1MΩ	10Ω ~ 499KΩ 1Ω ~ 1MΩ 1Ω ~ 1MΩ	10Ω ~ 499KΩ 1Ω ~ 1MΩ 1Ω ~ 1MΩ
RMT50 (2010)	0.5W	200V	400V	± 10 ± 25 ± 50	24.9Ω ~ 100K	10Ω ~ 1MΩ 10Ω ~ 1MΩ 10Ω ~ 499KΩ	10Ω ~ 1MΩ 10Ω ~ 1MΩ 10Ω ~ 499KΩ	10Ω ~ 1MΩ 10Ω ~ 1MΩ 10Ω ~ 499KΩ
RMT1WS (1218)	0.5W	200V	400V	± 10 ± 25 ± 50	24.9Ω ~ 100K	10Ω ~ 499KΩ 10Ω ~ 1MΩ 10Ω ~ 1MΩ	10Ω ~ 499KΩ 10Ω ~ 1MΩ 10Ω ~ 1MΩ	10Ω ~ 499KΩ 10Ω ~ 1MΩ 10Ω ~ 1MΩ
RMT1W (2512)	0.75W	200V	400V	± 10 ± 25 ± 50	24.9Ω ~ 100K	10Ω ~ 499KΩ 10Ω ~ 1MΩ 10Ω ~ 1MΩ	10Ω ~ 499KΩ 10Ω ~ 1MΩ 10Ω ~ 1MΩ	10Ω ~ 499KΩ 10Ω ~ 1MΩ 10Ω ~ 1MΩ

PART NUMBER EXAMPLE

RMT 06 R - 10K - B 25