

THIN FILM CHIP RESISTORS

Features

1. Low TCR
2. High precision ($\pm 0.5\%$ up to $\pm 0.01\%$)
3. Low current noise
4. High stability

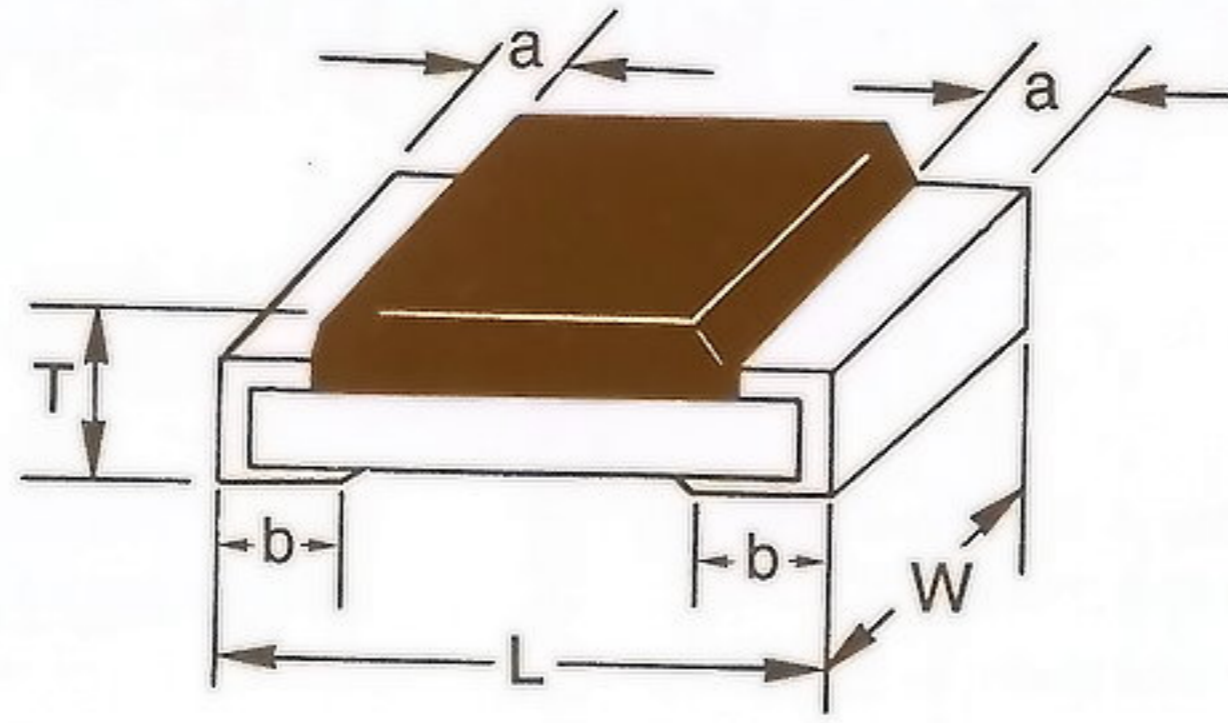
Electrical Characteristics

Style	RMT-04 0402	RMT-06 0603	RMT-10 0805	RMT-18 1206	RMT-20 1210	RMT-22 2010	RMT-24 2512
Power Rating at 70°C	1/16W	1/16W	1/10W	1/8W	1/4W	1/2W	3/4W
Operating Temp. Range	- 55°C ~ + 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
Dielectric Withstanding Voltage	100V	100V	250V	250V	400V	400V	400V
Resistance Range	10 Ω ~100K Ω	10 Ω ~330K Ω	10 Ω ~1M Ω	10 Ω ~1M Ω	10 Ω ~1M Ω	10 Ω ~1M Ω	10 Ω ~1M Ω
Temperature Coefficient	$\pm 10\text{ppm}/^\circ\text{C}$; $\pm 15\text{ppm}/^\circ\text{C}$; $\pm 25\text{ppm}/^\circ\text{C}$; $\pm 50\text{ppm}/^\circ\text{C}$						

Environmental Characteristics

PERFORMANCE TEST	TEST METHOD	RATING
Temperature Coefficient (by Type)	MIL-STD-202F, Method 304 -55°C to +125°C	$\pm 10-50\text{ppm}/^\circ\text{C}$
Thermal Shock	MIL-STD-202F, Method 107 5 cycles, -55°C to +125°C	$\pm (0.5\%+0.05\Omega)$
Low Temperature Operation	MIL-R-55342D, Para.4.7.4 One hour at -55°C followed by 45 minutes RCWV	$\pm (0.5\%+0.05\Omega)$
Short Time Overload	MIL-R-55342D, Para.4.7.5 2.5 times RCWV for 5 seconds	$\pm (0.5\%+0.05\Omega)$
High Temperature Exposure	MIL-R-55342D, Para.4.7.6 125°C for 100 hours	$\pm (0.5\%+0.05\Omega)$
Resistance to Soldering Heat	MIL-R-55342D, Para.4.7.7 Soldered to test board at 260°C for 10 seconds	$\pm (0.5\%+0.05\Omega)$
Moisture Resistance	MIL-STD-202F, Method 106 10 cycles. Total 240 hours	$\pm (0.5\%+0.05\Omega)$
Life	MIL-STD-202F, Method 108A 1000 hours at 70°C RCWV intermittent	$\pm (0.5\%+0.05\Omega)$
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	$\pm (0.5\%+0.05\Omega)$

Dimensions

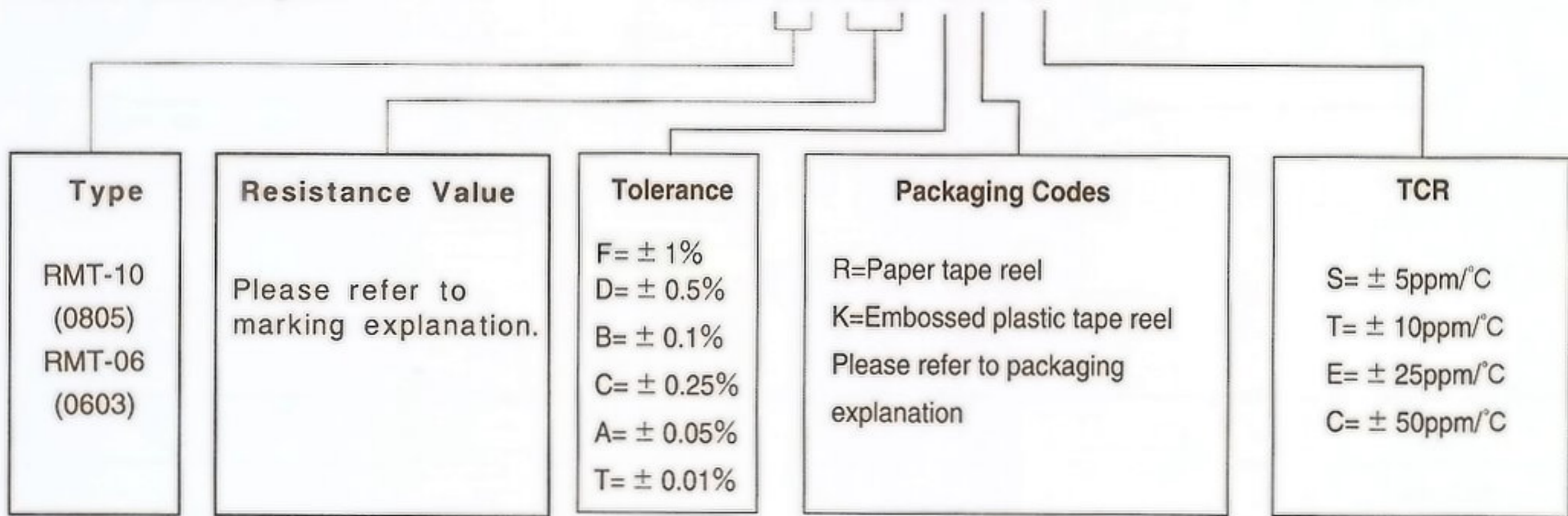


Unit: mm

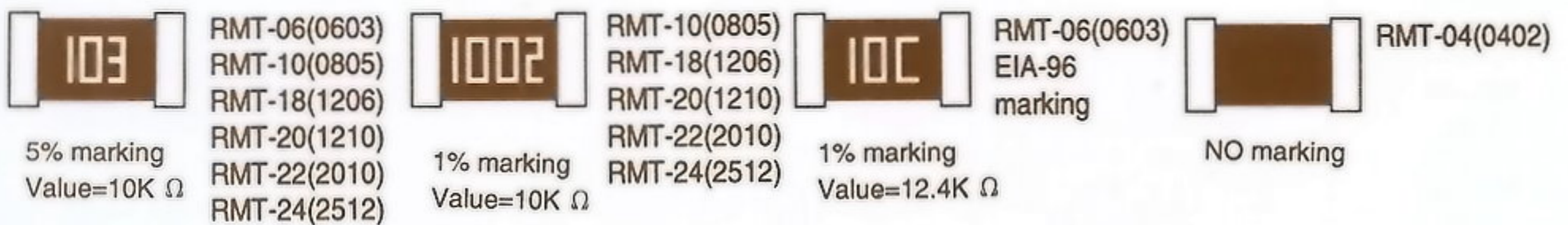
Style	Size Code	L	W	T	a	b
RMT-04	0402	1.00 ± 0.10	0.50 ± 0.05	0.30 ± 0.05	0.25 ± 0.10	0.20 ± 0.10
RMT-06	0603	1.60 ± 0.10	0.80 ± 0.10	0.45 ± 0.10	0.30 ± 0.15	0.30 ± 0.15
RMT-10	0805	2.00 ± 0.15	1.25 ± 0.15	0.55 ± 0.10	0.30 ± 0.20	0.40 ± 0.25
RMT-18	1206	3.10 ± 0.15	1.55 ± 0.15	0.55 ± 0.10	0.50 ± 0.20	0.40 ± 0.25
RMT-20	1210	3.10 ± 0.15	2.60 ± 0.15	0.55 ± 0.10	0.50 ± 0.20	0.50 ± 0.25
RMT-22	2010	4.90 ± 0.15	2.40 ± 0.15	0.55 ± 0.10	0.60 ± 0.20	0.50 ± 0.25
RMT-24	2512	6.35 ± 0.15	3.20 ± 0.15	0.55 ± 0.10	0.60 ± 0.20	0.55 ± 0.25

Parts Number System

RMT-06 1002 DR E



Marking



Marking explanation

- 5% tolerance: 3 digits, first two digits are significant figures, third digit is number of zeros. Letter R is decimal point.
- 1% tolerance: 4 digits, first three digits are significant figures, Letter R is decimal point.
- 0603 1% : EIA-96 marking (see page 14)
- 0402 no marking