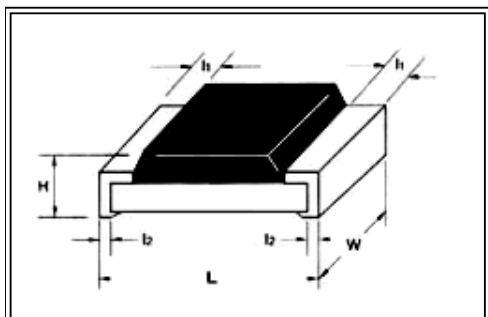


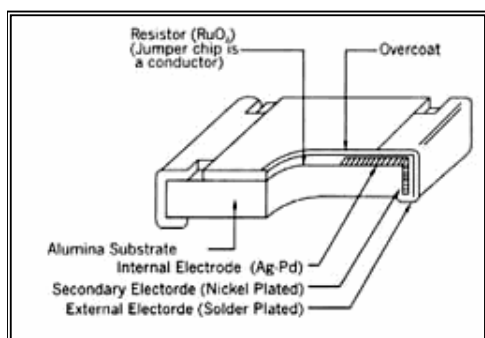
Thick film resistors - RC series

DIMENSIONS



FEATURES

- Extremely thin and light
- Highly reliable multilayer electrode construction
- Compatible with all soldering process
- Highly stable in auto-placement surface mounting applications
- Barrier layer lead termination
- Zero Ohm Jumper is available
- Available in 8mm Tape & 1 Reel per EIA RS481



unit: mm

Style	L	W	H	I ₁	I ₂
RC0402	1.00±0.10	0.50±0.05	0.35±0.05	0.20±0.10	0.25±0.10
RC0603	1.60±0.10	0.80±0.10	0.45±0.10	0.30±0.20	0.30±0.20
RC0805	2.00±0.10	1.25±0.10	0.50±0.10	0.40±0.20	0.40±0.20
RC1206	3.10±0.10	1.60±0.10	0.55±0.10	0.50±0.25	0.50±0.25
RC1210	3.10±0.10	2.60±0.15	0.55±0.10	0.50±0.25	0.50±0.20
RC2010	5.00±0.10	2.50±0.15	0.55±0.10	0.60±0.25	0.50±0.20
RC2512	6.35±0.10	3.20±0.15	0.55±0.10	0.60±0.25	0.50±0.20

ELECTRICAL CHARACTERISTICS

Style	RC0402	RC0603	RC0805	RC1206	RC1210	RC2010	RC2512
Power Rating at 70°C	1/16W	1/10W	1/8W	1/4W	1/3W	3/4W	1W
Operating Temp. Range	-55°C to +125°C(Derated to 0 Load at +125°C)						
Maximum Working Voltage	25V	50V	150V	200V	200V	200V	200V
Maximum Overload Voltage	50V	100V	300V	400V	400V	400V	400V
Dielectric Withstand Voltage	50V	100V	250V	500V	500V	500V	500V
Resistance Range ±1%, E-96 ±5%, E-24 Zero Ohm Jumper <0.05 Ohm	100 Ohm ... 1 MOhm 2 Ohm ... 3.3 MOhm	10 Ohm ... 1 MOhm 1 Ohm ... 10 MOhm					
Temperature Coefficient	±250ppm/°C	±100ppm/°C					
	2 Ohm ... 10 Ohm: ±500ppm/°C	1 Ohm ... 10 Ohm: ±250ppm/°C >1 MOhm: ±200ppm/°C					

ENVIRONMENTAL CHARACTERISTICS

PERFORMANCE TEST	TEST METHOD	1% TOL.	5% TOL.
Temperature Coefficient	MIL-STD-202F, Method 304 -55°C to +125°C	by Type	by Type
Thermal Shock	MIL-STD-202F, Method 107 5 cycles, -55°C to +125°C (step by step 2Min)	±(0.5% +0.05 Ohm)	±(1% +0.05 Ohm)
Low Temperature Operation	MIL-R-55342D, Para.4.7.4 One hour at -65°C followed by 45 minutes RCWV	±(0.5% +0.05 Ohm)	±(1% +0.05 Ohm)
Short Time Overload	MIL-R-553420D, Para.4.7.5 2.5 times RCWV for 5 seconds	±(1% +0.05 Ohm)	±(2% +0.05 Ohm)
Insulation Resistance	MIL-STD-202F, Method 302 RCOV for 1 minute	10000 MOhm	10000 MOhm
Dielectric Withstand Voltage	MIL-STD-202F, Method 301 R.M.S. for 1 minute	by type	by type
Resistance to Soldering Heat	MIL-STD-202F, Method 210C Soldered to test board at 260°C for 10 seconds	±(0.5% +0.05 Ohm)	±(1% +0.05 Ohm)
Moisture Resistance	MIL-STD-202F, Method 106F 42 cycles. Total 1000 hours	±(0.5% +0.05 Ohm)	±(2% +0.05 Ohm)
Life	MIL-STD-202F, Method 108A 1000 hours at 70°C RCWV intermittent	±(1% +0.05 Ohm)	±(3% +0.1 Ohm)
Solderability	MIL-STD-202F, Method 208G 230°C for 5 seconds	95% min. coverage	95% min. coverage
Bending Strength	JIS-C-5202, Para.6.1.4 Unit mounted in center of 90mm board length, deflected 5mm (power chip 2mm) in either direction for 5 seconds	±(1% +0.05 Ohm)	±(1% +0.05 Ohm)