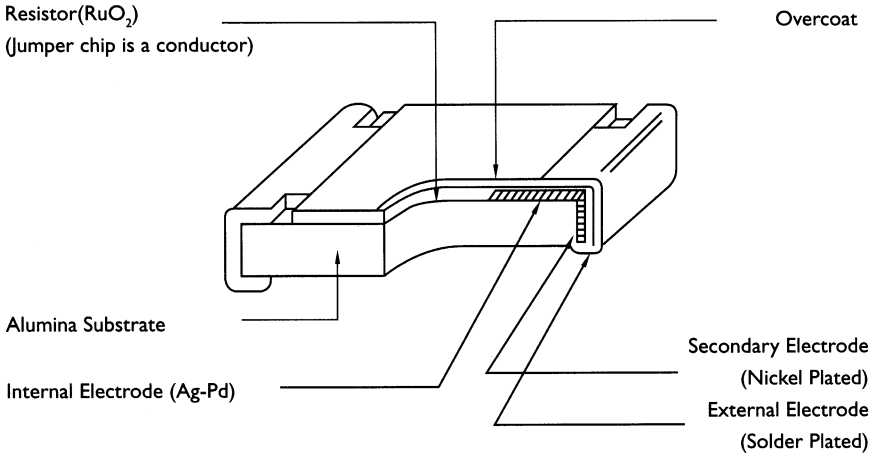
Series: RT

FEATURES

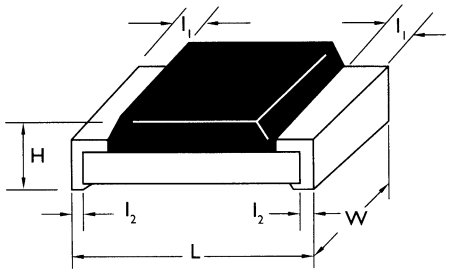
- High Stability
- Low TCR
- High Accuracy (±0.1%, ±0.5%)



DIMENSIONS

Unit: mm

STYLE	L	W	H	I1	I2
RT115 (0603)	1.60±0.10	$0.80^{+0.15}_{-0.05}$	0.45±0.10	0.30±0.20	0.30±0.20
RT210 (0805)	2.00±0.15	$1.25^{+0.10}_{-0.05}$	0.50±0.10	0.40±0.20	0.40±0.20



ELECTRICAL CHARACTERISTICS

STYLE	RT115 (0603)	RT210 (0805)
Power Rating at 70°C	1/16W	1/10W
Operating Temp. Range	-55°C to +125°C (Derated to 0 Load at +125°C)	
Maximum Working Voltage	50V	100V
Maximum Overload Voltage	100V	200V
Dielectric Withstand Voltage	100V	250V
Resistance Range E-24 Only, E-96 on Request	1Ω ~ 10MΩ : ±100ppm/°C 10Ω ~ 91MΩ : ±50ppm/°C 100Ω ~ 33KΩ : ±25ppm/°C 36KΩ ~ 330KΩ : ±50ppm/°C	1Ω ~ 10MΩ : ±100ppm/°C 10Ω ~ 91MΩ : ±50ppm/°C 100Ω ~ 100KΩ : ±25ppm/°C 110KΩ ~ 1MΩ : ±50ppm/°C
Tol.±2%, ±5% (E-24) Temperature Coefficient Resistance Tolerance	10Ω ~ 3.3MΩ ±25 ~ 100ppm/°C ±0.1%, ±0.5%	1Ω ~ 10MΩ

ENVIRONMENTAL CHARACTERISTICS

PERFORMANCE TEST	TEST METHOD		APPRAISE
Temperature Coefficient	MIL-STD-202F, Method 304	-55°C to +125°C	by Type
Thermal Shock	MIL-STD-202F, Method 107	5 Cycles, -55°C to +125°C (Step by Step 2 min)	±(0.5%+0.05Ω)
Low Temperature Operation	MIL-R-55342D, Para. 4.7.4	One Hour at -65°C 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)
Insulation Resistance	MIL-STD-202F, Method 302	RCOV for 1 Minute	10000MΩ
Dielectric Withstand Voltage	MIL-STD-202F, Method 301	R.M.S. for 1 Minute	by Type
Resistance to Soldering Heat	MIL-STD-202F, Method 210C	Soldered to Test Board at 260°C for 10 Seconds	±(0.5%+0.05Ω)
Moisture Resistance	MIL-STD-202F, Method 106F	42 Cycles. Total 1000 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 208G	230°C for 5 Seconds	95% min. coverage
Bending Strength	JIS-C-5202, Para. 6.1.4, Unit Mounted in Center of 90mm Board Length, Deflected 5mm in Either Direction for 5 Seconds		±(0.5%+0.05Ω)