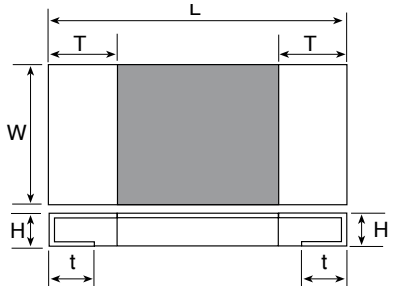
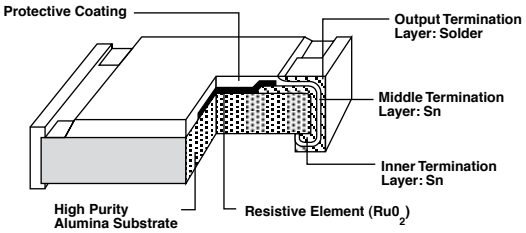
- Small in size and light in weight
- Electrical stability and high reliability
- Excellent mechanical strength and high frequency characteristics
- Reduction of assembly costs and matching with auto placement machines
- Hybrid thick and thin integrated circuits
- Telecommunication equipment
- Computers



OUTLINE DRAWING



CONSTRUCTION



Range	Size Code	Length L (mm)	Width W (mm)	Height H (mm)	Terminal T (mm)	Terminal t (mm)
RPC04	0402	1.00 ± 0.10	0.50 ± 0.05	0.35 ± 0.05	0.20 ± 0.10	0.25 ± 0.10
RPC16	0603	1.60 ± 0.10	0.80 ± 0.10	0.45 ± 0.1	0.30 ± 0.20	0.30 ± 0.20
RPC12	0805	2.00 ± 0.10	1.25 ± 0.10	0.50 ± 0.1	0.40 ± 0.20	0.40 ± 0.20
RPC25	1206	3.10 ± 0.10	1.60 ± 0.10	0.55 ± 0.1	0.50 ± 0.25	0.50 ± 0.25
RPC33	1210	3.10 ± 0.10	2.60 ± 0.15	0.55 ± 0.1	0.50 ± 0.25	0.5 ± 0.20
RPC50	2010	5.00 ± 0.10	2.50 ± 0.15	0.55 ± 0.1	0.60 ± 0.25	0.5 ± 0.20
RPC100	2512	6.35 ± 0.10	3.20 ± 0.15	0.55 ± 0.1	0.60 ± 0.25	0.5 ± 0.20

ORDERING INFORMATION

RPC	25	103	J
Range	Size 04=0402 16 = 0603 12 = 0805 25 = 1206 33 = 1210 50 = 2010 100 = 2512	Value	Tolerance F = ± 1% J = ± 5%

Remark: E96 is only available for 1%

POWER RATING

				Resistance Range/PPM			
Size Code	Power Rating	Max Working Voltage	Max Overload Voltage	F(±1%) E-96	PPM/°C	J(±5%) E-24	PPM/°C
0402	1/16w	50v	100v	1R - < 10R	200	1R - < 10R	200
0402	1/16w	50v	100v	10R-10M	100	10R-10M	100
0603	1/10w	50v	100v	1R - < 10R	200	1R - < 10R 10M-22M	200
0603	1/10w	50v	100v	10R-10M	100	10R-10M	100
0805	1/8w	150v	300v	1R - < 10R	200	1R - < 10R 10M-22M	200
0805	1/8w	150v	300v	10R-10M	100	10R-10M	100
1206	1/4w	200v	400v	1R - < 10R	200	1R - < 10R 10M-22M	200
1206	1/4w	200v	400v	10R-10M	100	10R-10M	100
1210	1/2w	200v	500v	1R - < 10R	200	1R - < 10R 10M-22M	200
2010	1/2w	200v	500v	10R-10M	100	10R-10M	100
2010	3/4w	200v	500v	1R - < 10R	200	1R - < 10R 10M-22M	200
2010	3/4w	200v	500v	10R-10M	100	10R-10M	100
2512	1w	200v	500v	1R - < 10R	200	1R - < 10R 10M-22M	200
2512	1w	200v	500v	10R-10M	100	10R-10M	100

* Low value resistors available between 0.01Ω - 1Ω in ±1% & ±5% TCR = 200ppm/˚C to 600ppm/˚C

OTHER SPECIFICATIONS & TEST METHODS

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 2 min)	±(0.5%+0.05Ω)	±(1%+0.05Ω)
Low Temperature Operation	MIL-R-55342D, Para.4.7.4	One Hour at -65˚C Followed by 45 min RCWV	±(0.5%+0.05Ω)	±(1%+0.05Ω)
Short Time Overload	MIL-R-55342D, Para.4.7.5	2.5 Times RCWV for 5 Seconds	±(1%+0.05Ω)	±(2%+0.05Ω)
Insulation Resistance	MIL-STD-202F, Method 302	RCOV for 1 minute	10000MΩ	10000MΩ
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%+0.05Ω)	±(1%+0.05Ω)
Moisture Resistance	MIL-STD-202F, Method 160F	42 Cycles. Total 1000 Hours	±(0.5%+0.05Ω)	±(2%+0.05Ω)
Life	MIL-STD-202F, Method 108A	1000 Hours at 70˚C RCWV Intermittent	±(1%+0.05Ω)	±(3%+0.05Ω)
Resistance to Soldering Heat	MIL-STD-202F, Method 210C	260˚C, for 5 Seconds	95% min. coverage	95% min. coverage
Bending Strength	JIS-C-5202, Para.6.1.4, Unit Mounted in Centre of 90mm Board Length Deflected 5mm (power chip 2mm) in Either Direction for 5 Seconds		±(1%+0.05Ω)	±(1%+0.05Ω)

For taping and packaging specification please see the RTF range.