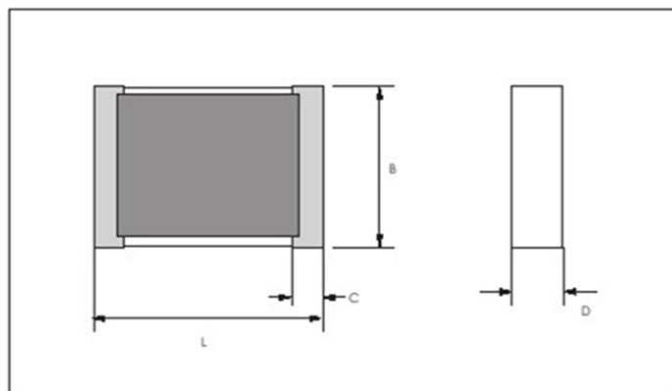




Construction



Features

- Chip resistors in thick film
- Contact areas PtAg-non-magnetic
- Suited for gluing and soldering
- RF-versions untrimmed or air-abrasive trimmed(0805,1206)

Applications

- Computers
- Telecom and wireless
- Meters and instruments
- Electrical devices

Reference Standards

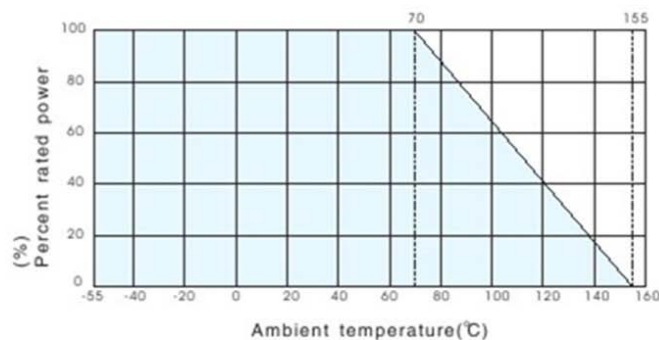
Q/DRT005—2009

Dimensions(mm)

Type	L	B	D	C
0402	1.04 ^{+0.05}	0.5 ^{+0.05}	0.3 ^{+0.05}	0.1 ^{+0.1/-0.05}
0504	1.25 ^{+0.15/-0.05}	1.0 ^{+0.15/-0.05}	0.3 ^{+0.15/-0.05}	0.2 ^{+0.2/-0.1}
0603	1.5 ^{+0.15/-0.05}	0.8 ^{+0.15/-0.05}	0.4 ^{+0.15/-0.05}	0.2 ^{+0.2/-0.1}
0805	2.0 ^{+0.15/-0.05}	1.25 ^{+0.15/-0.05}	0.4 ^{+0.15/-0.05}	0.2 ^{+0.2/-0.1}
1206	3.2 ^{+0.15/-0.05}	1.5 ^{+0.2/-0.05}	0.4 ^{+0.15/-0.05}	0.3 ^{+0.2/-0.1}

L=Length,B=Width,D=Thickness,
C=Width of wraparound (in mm)

Derating Curve



Technical Specifications

Type	Power rating P_{75} (mW)	Working voltage (V)		Resistance ranges/Tolerances/TCR (ppm/°C) ¹⁾			
		trimmed	untrimmed	1R~10R	10R~100R	100R~1M	1M~10M
0402	50	30	100	10/20% TC100/250	5/10% TC50/100	2/5/10% TC50/100	5/10/20% TC50/100
0504	100	50	150	5/10/20% TC100/250	2/5/10% TC50/100	1/2/5/10% TC50/100	1/2/5/10% TC50/100
0603	100	75	220	5/10/20% TC100/250	2/5/10% TC50/100	1/2/5/10% TC50/100	1/2/5/10% TC50/100
0805	125	100	300	5/10/20% TC100/250	1/2/5/10% TC50/100	0.5/.../10% TC50/100	1/2/5/10% TC50/100
1206	250	200	600	5/10/20% TC100/250	1/2/5/10% TC50/100	0.5/.../10% TC50/100	1/2/5/10% TC50/100

¹⁾TC25/50: Temperature range +25°C~+85°C

Zero-Ohm-Jumper: < 50mΩ TCR max.+4000PPM/°C

Lower values of tolerance, TCR and VCR or other sizes on request.

Performance

Temperature range	Climatic category acc.to IEC 60068	Solderability acc.IEC60068-2-58 ⁹⁾	Max.Soldering temperature acc.IEC60068-2-58
-55°C~155°C	55/155/56	235°C 2s	260°C 10s

Long term stability	Storage 125°C/1000h	Storage 155°C/1000h	Load P_{75} /70°C/1000h	Short term overload	Damp heat(56d/40°C/96%)
≥ 10R	< 0.5%	< 1%	< 0.5%	< 0.25%	< 0.5%
< 10R	< 1%	< 2%	< 1%	< 0.5%	< 1%

⁹⁾Up to 6 months after shipment resp.at storage in Nitrogen

Data not specified according to CECC40401-802

How To Order

Example

CHR	0805	125mW	100MΩ	± 5%	± 100ppm	tape/bag
Type	Style	Power	Nominal Value	Tolerance	TCR	Packaging
CHR	0402 0504 0603 0805 1206	50mW 100mW 125mW 250mW	100MΩ	± 0.5% ± 1% ± 2% ± 5% ± 10% ± 20%	± 50ppm ± 100ppm ± 250ppm	tape bag

If no requirements for TCR and taping, the standard TCR (highest value in table) will be supplied and packaging is bulk.