Thin Film Chip Resistors

Performance Specification

Short Time Overload	±0.5% Max
Insulation Resistance	Min. 1,000 Mega Ohm
Humidity (Steady State)	±0.3% Max
Load Life	±0.2%; >7KΩ ± 0.5% Max
Terminal Bending	±0.2% Max
Solderability	Min. 95% coverage.
Resistance to Soldering Heat	±0.2% Max
Dielectric Withstanding Voltage	No evidence of flashover, mechanical damage, arcing or insulation breakdown.

Ordering Procedure: Ex.: TC06, 1/8W, 25PPM, +/-0.25%, 10Ω T/R-5000

T C 0 6 2 5 C 1 0 0 J T 5 E

Resistor Size:
TC02 = 0402 TC03 = 0603
TC05 = 0805 TC06 = 1206
TC07 = 1210 TC10 = 2010
TC12 = 2512

Temperature Coefficient:
05 = 5PPM 25 = 25PPM
10 = 10PPM 50 = 50PPM
15 = 15PPM A0 = 100PPM

Tolerance:
A = ±0.05%
B = ±0.10%
C = ±0.25%
D = ±0.5%
F = ±1%

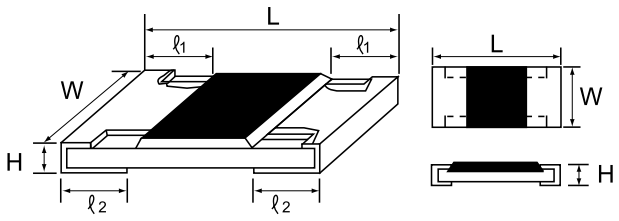
Resistance Value:
- E-24 series:
  1st digit is "0"
  2nd & 3rd digits are significant figures of the resistance
  4th indicates the number of zeros
- E-96 series:
  1st to 3rd digits are significant figures of the resistance
  4th digit indicates the number of zeros.
  "J" ~0.1, "K" ~ 0.01, "L" ~0.001
  Ex. 012J ~1Ω2, 226K ~ 2Ω26

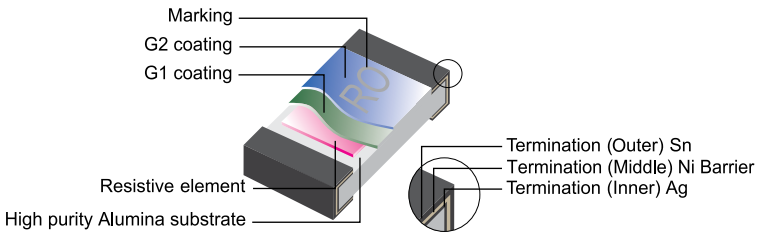
Packing Type:
T = Paper Tape/Reel
E = Plastic Tape/Reel

Packing Qty:
4 = 4,000 pcs. 5 = 5,000 pcs. C = 10,000 pcs.

Special Feature:
E = Lead (Pb) Free Plating Type/ RoHS compliant

Dimension





Type	Dimension (mm)				
	L	W	H	ℓ1	ℓ2
TC02 (0402)	1.00±0.10	0.50±0.05	0.32±0.08	0.20±0.10	0.23±0.13
TC03 (0603)	1.60±0.15	0.80±0.15	0.45±0.10	0.30±0.20	0.30±0.20
TC05 (0805)	2.00±0.15	1.25±0.15	0.55±0.10	0.35±0.25	0.40±0.25
TC06 (1206)	3.10±0.20	1.55±0.15	0.55±0.10	0.45±0.25	0.45±0.25
TC07 (1210)	3.10±0.15	2.50±0.25	0.55±0.10	0.50±0.30	0.55±0.25
TC10 (2010)	4.95±0.20	2.45±0.20	0.55±0.10	0.60±0.30	0.50±0.25
TC12 (2512)	6.35±0.20	3.15±0.20	0.55±0.10	0.60±0.30	0.50±0.25

Note:
1.) Standard Operating Temp (°C) : -55 -+155
2.) Standard : All Tolerance use E-96 Series
Only 2% & 5% use E-24 Series

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Features

- Thin Film NiCr resistance element
- Precision tolerance from ±0.01%, ±0.05%, ±0.10%, ±0.25%, ±0.50%, ±1%
- Extremely low TCR from ±5 ~ ±50PPM/°C
- Special packaging 1,000 pcs. / 2,000 pcs. per reel available

Application

- Medical equipment
- Testing / Measuring equipment
- Communication device, cellphone. GPS, PDA
- Automatic equipment controller
- Printer equipment
- Converters

Standard

Type	Power Rating at 70°C	Max Working Voltage	Max Overload Voltage	T.C.R. (PPM/°C)	Tolerance %	Resistance Range (Special low)	Resistance Range	Resistance Range (Special high)
TC02 (0402)	1/16W	25V	50V	±25 ±50	± 0.10% ± 0.25% ± 0.50% ± 1.00%		10Ω ~ 332KΩ	
TC03 (0603)	1/16W	50V	100V	±25 ±50	± 0.05%	4.7Ω ~ 9.76Ω	10Ω ~ 332KΩ	
					± 0.10%	4.7Ω ~ 9.76Ω	10Ω ~ 1MΩ	
					± 0.25% ± 0.50% ± 1.00%	1.5Ω ~ 9.76Ω	10Ω ~ 1MΩ	
TC05 (0805)	1/10W	100V	200V	±25 ±50	± 0.05%	4.7Ω ~ 9.76Ω	10Ω ~ 511KΩ	
					± 0.10%	4.7Ω ~ 9.76Ω	10Ω ~ 1MΩ	1.1MΩ ~ 2MΩ
					± 0.25% ± 0.50% ± 1.00%	1Ω ~ 9.76Ω	10Ω ~ 1MΩ	1.1MΩ ~ 2MΩ
TC06 (1206)	1/8W	150V	300V	±25 ±50	± 0.05%	4.7Ω ~ 9.76Ω	10Ω ~ 1MΩ	
					± 0.10%	4.7Ω ~ 9.76Ω	10Ω ~ 1MΩ	1.1MΩ ~ 2.5MΩ
					± 0.25% ± 0.50% ± 1.00%	1Ω ~ 9.76Ω	10Ω ~ 1MΩ	1.1MΩ ~ 2.5MΩ
TC07 (1210)	1/5W	150V	300V	±25 ±50	± 0.05%	4.7Ω ~ 9.76Ω	10Ω ~ 1MΩ	
					± 0.10%	4.7Ω ~ 9.76Ω	10Ω ~ 1MΩ	1.1MΩ ~ 2.5MΩ
					± 0.25% ± 0.50% ± 1.00%	1Ω ~ 9.76Ω	10Ω ~ 1MΩ	1.1MΩ ~ 2.5MΩ
TC10 (2010)	1/4W	150V	300V	±25 ±50	± 0.05%	4.7Ω ~ 9.76Ω	10Ω ~ 1MΩ	
					± 0.10%	4.7Ω ~ 9.76Ω	10Ω ~ 1MΩ	1.1MΩ ~ 3MΩ
TC12 (2512)	1/2W				± 0.25% ± 0.50% ± 1.00%	1Ω ~ 9.76Ω	10Ω ~ 1MΩ	1.1MΩ ~ 3MΩ

RoHS Compliant