

DATA SHEET

THIN FILM CHIP RESISTORS

High precision - high stability

RT series

0.01% TO 1%, TCR 5 TO 50
sizes 0100/ 0201/ 0402/ 0603/ 0805/ 1206/
1210/ 2010/ 2512

RoHS compliant



SCOPE

This specification describes RT series high precision - high stability chip resistors with lead-free terminations made by thin film process.

APPLICATIONS

- Converters
- Printing equipment
- Server board
- Telecom
- Consumer

FEATURES

- Halogen Free Epoxy
- RoHS compliant
- Reducing environmentally hazardous wastes
- High component and equipment reliability
- Saving of PCB space
- None forbidden-materials used in products/production

ORDERING INFORMATION - GLOBAL PART NUMBER & I2NC

Both part numbers are identified by the series, size, tolerance, packing type, temperature coefficient, taping reel and resistance value.

YAGEO BRAND ordering code

GLOBAL PART NUMBER (PREFERRED)

RT XXXX F X X XX XXXX L
 (1) (2) (3) (4) (5) (6) (7)

(1) SIZE

RT0100 / 0201 / 0402 / 0603 / 0805 / 1206 / 1210 / 2010 / 2512

(2) TOLERANCE

- L = ±0.01%
- P = ±0.02%
- W = ±0.05%
- B = ±0.1%
- C = ±0.25%
- D = ±0.5%
- F = ±1%

(3) PACKAGING TYPE

R = Paper/PE taping reel K = Embossed taping reel

(4) TEMPERATURE COEFFICIENT OF RESISTANCE

- A = 5 ppm/°C
- B = 10 ppm/°C
- C = 15 ppm/°C
- D = 25 ppm/°C
- E = 50 ppm/°C

(5) TAPING REEL

07 = 7 inch dia. Reel 10 = 10 inch dia. Reel 13 = 13 inch dia. Reel
 7W = 7 inch dia. Reel with high power (1W for 2512)

(6) RESISTANCE VALUE

There are 2~4 digits indicated the resistor value. Letter R/K/M is decimal point.
 Detailed resistance rules show in table of "Resistance rule of global part number".

(7) DEFAULT CODE

Letter L is system default code for order only ^(Note)

| Resistance code rule | Example |
|------------------------|--|
| XRXX (1 to 9.76 Ω) | 1R = 1 Ω 1R5 = 1.5 Ω 9R76 = 9.76 Ω |
| XXRX (10 to 97.6 Ω) | 10R = 10 Ω 97R6 = 97.6 Ω |
| XXXR (100 to 976 Ω) | 100R = 100 Ω |
| XKXX (1 to 9.76 KΩ) | 1K = 1,000 Ω 9K76 = 9760 Ω |
| XMXX (1 to 9.76 MΩ) | 1M = 1,000,000 Ω 9M76 = 9,760,000 Ω |

ORDERING EXAMPLE

The ordering code of a RT0603 chip resistor, TC 50 value 56 Ω with ±0.5% tolerance, supplied in 7-inch tape reel is:
RT0603DRE0756RL.

NOTE

1. All our RSMD products meet RoHS compliant and Halogen Free. "LFP" of the internal 2D reel label mentions "Lead Free Process"
2. On customized label, "LFP" or specific symbol can be printed

PHYCOMP BRAND ordering codes

Both GLOBAL PART NUMBER (preferred) and I2NC (traditional) codes are acceptable to order Phycomp brand products. For matching traditional types with size codes, please refer to “Comparison table of traditional types and sizes”.

GLOBAL PART NUMBER (PREFERRED)

For detailed information of GLOBAL PART NUMBER and ordering example, please refer to page 2.

I2NC CODE

| 2390 (1) | X (2) | XX (3) | X (4) | XXXX (5) | L (6) |
|-----------------------|--|--|--|--|---|
| START WITH (1) | TCR (2) (ppm/°C) | PACKING CODE BY SIZE (inch) (3) | TOL. (4) (%) | RESISTANCE RANGE | DEFAULT CODE (NOTE) |
| 2390 | 8 = ±10 7 = ±15 6 = ±25 4 = ±50 | 0402: 07 = 7" reel 47 = 13" reel 0603: 04 = 7" reel 24 = 10" reel 44 = 13" reel 0805: 01 = 7" reel 41 = 13" reel 1206: 11 = 7" reel 51 = 13" reel 1210: 12 = 7" reel 52 = 13" reel 2010: 15 = 7" reel 2512: 18 = 7" reel | 7 = ±1 6 = ±0.5 5 = ±0.25 4 = ±0.1 3 = ±0.05 | The remaining 4 digits represent the resistance value with the last digit indicating the multiplier as shown in the table of "Last digit of I2NC". 0402: 4.7Ω ≤ R ≤ 240kΩ 0603: 1 Ω ≤ R ≤ 1MΩ 0805: 1Ω ≤ R ≤ 1.5 MΩ 1206: 1Ω ≤ R ≤ 1.5 MΩ 1210: 4.7Ω ≤ R ≤ 1 MΩ 2010: 4.7Ω ≤ R ≤ 1 MΩ 2512: 4.7Ω ≤ R ≤ 1 MΩ | Letter L is system default code for order only (Note) |

Comparison table of traditional types and sizes

| TF (1) | X (2) | X (3) | X (4) |
|-------------------|--|--|--|
| START WITH | SIZE CODE | TCR (ppm/°C) | TOL. (%) |
| TF | 3 = 0402 2 = 0603 1 = 0805 0 = 1206 5 = 1210 7 = 2010 6 = 2512 | 4 = ±10 3 = ±15 1 = ±25 2 = ±50 | 0 = ±1 1 = ±0.5 2 = ±0.25 3 = ±0.1 4 = ±0.05 |

Example:

TF321 = RT0402, TC50, ±0.5% tolerance

| Resistance decade (3) | Last digit |
|------------------------------|-------------------|
| 1 to 9.76 Ω | 8 |
| 10 to 97.6 Ω | 9 |
| 100 to 976 Ω | 1 |
| 1 to 9.76 kΩ | 2 |
| 10 to 97.6 kΩ | 3 |
| 100 to 976 kΩ | 4 |
| 1 to 9.76 MΩ | 5 |
| 10 to 97.6 MΩ | 6 |

Example: 1 Ω = 1008 or 108
33 kΩ = 3303 or 333
10 MΩ = 1006 or 106

Exceptions to above packing code definitions:

- 0805 TC50 with 1%, supplied in 13" reel, the packing code is 02.
- 0603 TC50 with 1%, supplied in 13" reel, the packing code is 03.
- 2512 TC15, in 7" reel, the packing code is 35.
- 2010 TC15, in 7" reel, the packing code is 31.

ORDERING EXAMPLE

The ordering code of a TF221 resistor, TC50, value 56 Ω, with ±0.5% tolerance, supplied in tape of 5,000 units per reel is: 239040465609L or RT0603DRE0756RL.

NOTE

- All our RSMD products meet RoHS compliant and Halogen Free. "LFP" of the internal 2D reel label mentions "Lead Free Process"
- On customized label, "LFP" or specific symbol can be printed

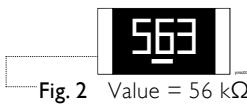
MARKING

RT0100 / RT0201 / RT0402 / RESISTANCE VALUE IS NOT IN E-24 / E96 SERIES



No marking

RT0603

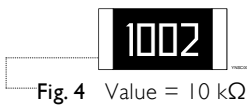


E-24 series: exception values 10/11/13/15/20/75 of E-24 series, one short bar under marking letter



E-96 series: including values 10/11/13/15/20/75 of E-24 series, 3 digits

RT0805 / RT1206 / RT1210 / RT2010 / RT2512



Either resistance in E-24 or E-96: 4 digits
First three digits for significant figure and 4th digit for number of zeros

For further marking information, please see special data sheet “Chip resistors marking”.

CONSTRUCTION

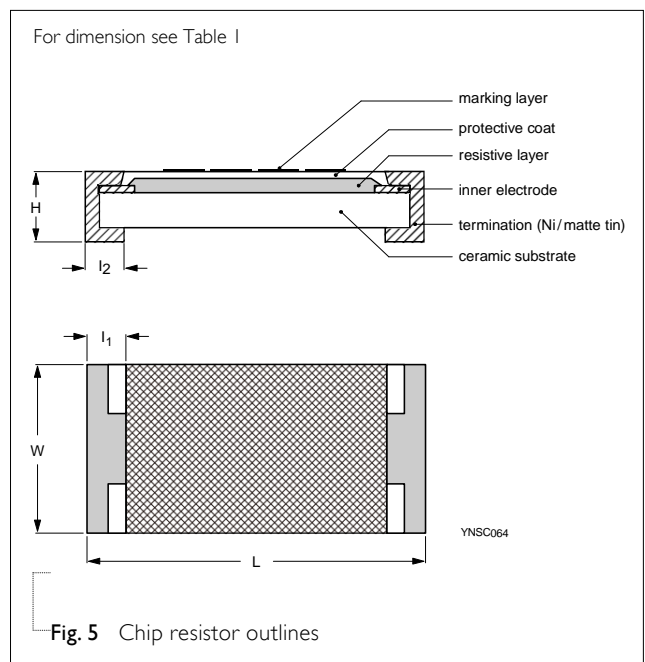
The resistors are constructed out of a high-grade ceramic body. Internal metal electrodes are added at each end and connected by a resistive layer. The resistive layer is adjusted to give the approximate required resistance and laser cutting of this resistive layer that achieves tolerance trims the value. The resistive layer is covered with a protective coat and printed with the resistance value. Finally, the two external terminations (matte tin) are added. See fig. 5.

DIMENSION

Table I For outlines see fig. 5

| TYPE | L (mm) | W (mm) | H (mm) | l ₁ (mm) | l ₂ (mm) |
|--------|------------|------------|------------|---------------------|---------------------|
| RT0100 | 0.40±0.02 | 0.20±0.02 | 0.13±0.02 | 0.10±0.03 | 0.10±0.03 |
| RT0201 | 0.60 ±0.03 | 0.30 ±0.03 | 0.23 ±0.03 | 0.10 ±0.05 | 0.15 ±0.05 |
| RT0402 | 1.00 ±0.10 | 0.50 ±0.05 | 0.30 ±0.05 | 0.20 ±0.10 | 0.25 ±0.10 |
| RT0603 | 1.60 ±0.10 | 0.80 ±0.10 | 0.45 ±0.10 | 0.25 ±0.15 | 0.25 ±0.15 |
| RT0805 | 2.00 ±0.10 | 1.25 ±0.10 | 0.50 ±0.10 | 0.35 ±0.20 | 0.35 ±0.20 |
| RT1206 | 3.10 ±0.10 | 1.60 ±0.10 | 0.55 ±0.10 | 0.45 ±0.20 | 0.40 ±0.20 |
| RT1210 | 3.10 ±0.10 | 2.60 ±0.15 | 0.55 ±0.10 | 0.50 ±0.20 | 0.50 ±0.20 |
| RT2010 | 5.00 ±0.10 | 2.50 ±0.15 | 0.55 ±0.10 | 0.60 ±0.20 | 0.50 ±0.20 |
| RT2512 | 6.35 ±0.10 | 3.20 ±0.15 | 0.55 ±0.10 | 0.60 ±0.20 | 0.50 ±0.20 |

OUTLINES



ELECTRICAL CHARACTERISTICS

Table 2

| TYPE | Operating Temperature Range | Power Rating | Max. Work Vol. (V) | Max. Overload Vol. | T.C.R. (ppm/°C) | Resistance Range (E-24/E-96 series)(2) & Tolerance | | | | | | |
|--------|-----------------------------|--------------|--------------------|--------------------|-----------------|--|-----------|----------|----------|----------|----------|----------|
| | | | | | | ±0.01% | ±0.02% | ±0.05% | ±0.1% | ±0.25% | ±0.5% | ±1.0% |
| RT0100 | -55°C to +125°C | 1/32W | 15V | 30V | ±50 | --- | --- | --- | 50R~5K | 50R~5K | 50R~5K | 50R~5K |
| | | | | | ±25 | --- | --- | --- | 50R~5K | 50R~5K | 50R~5K | 50R~5K |
| RT0201 | -55°C to +125°C | 1/20W | 25V | 50V | ±50 | --- | --- | --- | 22~75K | 22~75K | 22~75K | 22~75K |
| | | | | | ±25 | --- | --- | --- | 22~75K | 22~75K | 22~75K | 22~75K |
| | | | | | ±15 | --- | --- | --- | 22~5K | 22~5K | --- | --- |
| | | | | | ±10 | --- | --- | --- | 22~5K | 22~5K | --- | --- |
| | | | | | ±5 | --- | --- | --- | --- | --- | --- | --- |
| | | | | | ±50 | 50.1~12K | 50.1~12K | 20~12K | 4.7~500K | 4.7~500K | 4.7~500K | 4.7~500K |
| RT0402 | | 1/16W | 50V | 100V | ±25 | 50.1~12K | 50.1~12K | 20~12K | 4.7~240K | 4.7~240K | 4.7~240K | 4.7~240K |
| | | | | | ±15 | 20~12K | 20~12K | 20~12K | 20~200K | 20~200K | --- | --- |
| | | | | | ±10 | 20~12K | 20~12K | 20~12K | 20~200K | 20~200K | --- | --- |
| | | | | | ±5 | 20~10K | 20~10K | 20~10K | 20~10K | 20~10K | --- | --- |
| | | | | | ±50 | 50.1~30K | 50.1~30K | 4.7~100K | 1~2M | 1~2M | 1~2M | 1~2M |
| | | | | | ±25 | 50.1~30K | 50.1~30K | 4.7~100K | 1~1M | 1~1M | 1~1M | 1~1M |
| RT0603 | -55°C to +155°C | 1/10W | 75V | 150V | ±15 | 50.1~100K | 50.1~100K | 4.7~100K | 4.7~680K | 4.7~680K | --- | --- |
| | | | | | ±10 | 50.1~100K | 50.1~100K | 4.7~100K | 4.7~680K | 4.7~680K | --- | --- |
| | | | | | ±5 | 20~30K | 20~30K | 20~30K | 20~30K | 20~30K | --- | --- |
| | | | | | ±50 | 50.1~30K | 50.1~30K | 4.7~200K | 1~3M | 1~3M | 1~3M | 1~3M |
| | | | | | ±25 | 50.1~30K | 50.1~30K | 4.7~200K | 1~1.5M | 1~1.5M | 1~1.5M | 1~1.5M |
| | | | | | ±15 | 50.1~200K | 50.1~200K | 4.7~200K | 4.7~1M | 4.7~1M | --- | --- |
| RT0805 | | 1/8W | 150V | 300V | ±10 | 50.1~200K | 50.1~200K | 4.7~200K | 4.7~1M | 4.7~1M | --- | --- |
| | | | | | ±5 | 20~50K | 20~50K | 20~50K | 20~50K | 20~50K | --- | --- |
| | | | | | ±50 | 50.1~30K | 50.1~30K | 5.6~500K | 1~3M | 1~3M | 1~3M | 1~3M |
| | | | | | ±25 | 50.1~30K | 50.1~30K | 5.6~500K | 1~1.5M | 1~1.5M | 1~1.5M | 1~1.5M |
| | | | | | ±15 | 50.1~500K | 50.1~500K | 5.6~500K | 5.6~1.5M | 5.6~1.5M | --- | --- |
| | | | | | ±10 | 50.1~500K | 50.1~500K | 5.6~500K | 5.6~1.5M | 5.6~1.5M | --- | --- |
| RT1206 | | 1/4W | 200V | 400V | ±5 | 20~100K | 20~100K | 20~100K | 20~100K | 20~100K | --- | --- |
| | | | | | ±50 | --- | --- | 4.7~1M | 4.7~1M | 4.7~1M | 4.7~1M | 4.7~1M |
| | | | | | ±25 | --- | --- | 4.7~1M | 4.7~1M | 4.7~1M | 4.7~1M | 4.7~1M |
| | | | | | ±15 | --- | --- | 100~100K | 4.7~100K | 4.7~100K | --- | --- |
| | | | | | ±10 | --- | --- | 100~100K | 4.7~100K | 4.7~100K | --- | --- |
| | | | | | ±5 | --- | --- | --- | --- | --- | --- | --- |
| RT1210 | | 1/4W | 200V | 400V | ±50 | --- | --- | 4.7~1M | 4.7~1M | 4.7~1M | 4.7~1M | 4.7~1M |
| | | | | | ±25 | --- | --- | 4.7~1M | 4.7~1M | 4.7~1M | 4.7~1M | 4.7~1M |
| | | | | | ±15 | --- | --- | 100~100K | 4.7~100K | 4.7~100K | --- | --- |
| | | | | | ±10 | --- | --- | 100~100K | 4.7~100K | 4.7~100K | --- | --- |
| | | | | | ±5 | --- | --- | --- | --- | --- | --- | --- |
| | | | | | ±50 | --- | --- | 4.7~1M | 4.7~1M | 4.7~1M | 4.7~1M | 4.7~1M |
| RT2010 | -55°C to +125°C | 1/2W | 200V | 400V | ±25 | --- | --- | 4.7~1M | 4.7~1M | 4.7~1M | 4.7~1M | 4.7~1M |
| | | | | | ±15 | --- | --- | 100~100K | 4.7~100K | 4.7~100K | --- | --- |
| | | | | | ±10 | --- | --- | 100~100K | 4.7~100K | 4.7~100K | --- | --- |
| | | | | | ±5 | --- | --- | --- | --- | --- | --- | --- |
| | | | | | ±50 | --- | --- | 4.7~1M | 4.7~1M | 4.7~1M | 4.7~1M | 4.7~1M |
| | | | | | ±25 | --- | --- | 4.7~1M | 4.7~1M | 4.7~1M | 4.7~1M | 4.7~1M |
| RT2512 | | 3/4W | 200V | 400V | ±15 | --- | --- | 100~100K | 4.7~100K | 4.7~100K | --- | --- |
| | | | | | ±10 | --- | --- | 100~100K | 4.7~100K | 4.7~100K | --- | --- |
| | | | | | ±5 | --- | --- | --- | --- | --- | --- | --- |
| | | | | | ±50 | --- | --- | 10Ω~1M | 10Ω~1M | 10Ω~1M | 10Ω~1M | 10Ω~1M |
| | | | | | ±25 | --- | --- | 10Ω~1M | 10Ω~1M | 10Ω~1M | 10Ω~1M | 10Ω~1M |
| | | | | | ±5 | --- | --- | --- | --- | --- | --- | --- |

NOTE

1. The maximum working voltage that may be continuously applied to the resistor element, see "IEC publication 60115-8"
2. Value of E-192 series is on request

FOOTPRINT AND SOLDERING PROFILES

For recommended footprint and soldering profiles, please see the special data sheet “Chip resistors mounting”.

PACKING STYLE AND PACKAGING QUANTITY

Table 3 Packing style and packaging quantity

| PACKING STYLE | REEL DIMENSION | RT0100 | RT0201 | RT0402 | RT0603 | RT0805 | RT1206 | RT1210 | RT2010 | RT2512 |
|--------------------------|----------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Paper/PE taping reel (R) | 7" (178 mm) | 10,000 | 10,000 | 10,000 | 5,000 | 5,000 | 5,000 | 5,000 | --- | --- |
| | 10" (254 mm) | 20,000 | 20,000 | 20,000 | 10,000 | 10,000 | 10,000 | 10,000 | --- | --- |
| | 13" (330 mm) | 50,000 | 50,000 | 50,000 | 20,000 | 20,000 | 20,000 | 20,000 | --- | --- |
| Embossed taping reel (K) | 7" (178 mm) | --- | --- | --- | --- | --- | --- | --- | 4,000 | 4,000 |

NOTE

I. For Paper/Embossed tape and reel specification/dimensions, please see the special data sheet “Chip resistors packing”

FUNCTIONAL DESCRIPTION

POWER RATING

Each type rated power at 70°C:

RT0100=1/32W
 RT0201=1/20W, RT0402=1/16W, RT0603=1/10W,
 RT0805=1/8W, RT1206=1/4W, RT1210=1/4W,
 RT2010=1/2W, RT2512=3/4W, 1W

RATED VOLTAGE

The DC or AC (rms) continuous working voltage corresponding to the rated power is determined by the following formula:

$$V = \sqrt{P \times R}$$

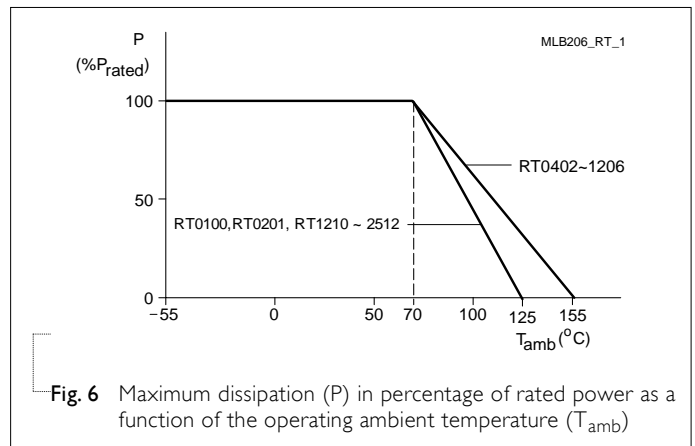
or max. working voltage whichever is less

Where

V=Continuous rated DC or AC (rms) working voltage (V)

P=Rated power (W)

R=Resistance value (Ω)



TESTS AND REQUIREMENTS

Table 4 Test condition, procedure and requirements

| TEST | TEST METHOD | PROCEDURE | REQUIREMENTS |
|--|---|---|------------------|
| Temperature Coefficient of Resistance (T.C.R.) | MIL-STD-202 Method 304 | At +25/-55 °C and +25/+125 °C Formula: $T.C.R = \frac{R_2 - R_1}{R_1(t_2 - t_1)} \times 10^6 \text{ (ppm/°C)}$ Where t ₁ =+25 °C or specified room temperature t ₂ =-55 °C or +125 °C test temperature R ₁ =resistance at reference temperature in ohms R ₂ =resistance at test temperature in ohms | Refer to table 2 |
| Life/Endurance | IEC 60115-1 4.25.1 MIL-STD-202 Method 108A | At 70±5 °C for 1,000 hours, rated voltage applied for 1.5 hours on, 0.5 hour off, still air required | ±(0.5%+0.05 Ω) |
| High Temperature Exposure | IEC 60068-2-2 | 1000 hours at maximum operating temperature depending on specification, unpowered | ±(0.5%+0.05 Ω) |
| Moisture Resistance | MIL-STD-202 Method 106G | Each temperature / humidity cycle is defined at 8 hours, 3 cycles / 24 hours for 10d. with 25 °C / 65 °C 95% R.H, without steps 7a & 7b, unpowered Parts mounted on test-boards, without condensation on parts Measurement at 24±2 hours after test conclusion | ±(0.5%+0.05 Ω) |
| Thermal Shock | MIL-STD-202 Method 107G | -55/+125 °C Number of cycles required is 300. Devices mounted Maximum transfer time is 20 seconds. Dwell time is 15 minutes. Air – Air | ±(0.5%+0.05 Ω) |
| Humidity (steady state) | IEC 60115-1 4.24.2 | Steady state for 1000 hours at 40 °C / 95% R.H. rated voltage applied for 1.5 hours on and 0.5 hour off | ±(0.5%+0.05 Ω) |

| TEST | TEST METHOD | PROCEDURE | REQUIREMENTS |
|--------------------------------|------------------|---|--|
| Short Time Overload | IEC60115-1 4.13 | 2.5 times of rated voltage or maximum overload voltage whichever is less for 5 sec at room temperature | $\pm(0.5\%+0.05 \Omega)$ No visible damage |
| Board Flex/ Bending | IEC 60115-1 4.33 | Chips mounted on a glass epoxy resin PCB (FR4) Bending: see table 5 for each size Bending time: 60±5 seconds | $\pm(0.25\%+0.05 \Omega)$ No visible damage RT0100±(0.5%+0.05 Ω) |
| Solderability - Wetting | J-STD-002 test B | Electrical Test not required Magnification 50X SMD conditions: 1 st step: method B, aging 4 hours at 155°C dry heat 2 nd step: leadfree solder bath at 245±3°C Dipping time: 3±0.5 seconds | Well tinned (≥95% covered) No visible damage |
| - Leaching | J-STD-002 test D | Leadfree solder, 260 °C, 30 seconds immersion time | No visible damage |
| - Resistance to Soldering Heat | IEC 60115-1 4.18 | Condition B, no pre-heat of samples. Leadfree solder, 260 °C, 10 seconds immersion time Procedure 2 for SMD: devices fluxed and cleaned with isopropanol | $\pm(0.5\%+0.05 \Omega)$ No visible damage |

Table 5 Bending for sizes 0100 to 2512

| TYPE | RT0100 | RT0201 | RT0402 | RT0603 | RT0805 | RT1206 | RT1210 | RT2010 | RT2512 |
|--------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Specification (mm) | 5 | 5 | 5 | 3 | 3 | 2 | 2 | 2 | 2 |

REVISION HISTORY

| REVISION | DATE | CHANGE NOTIFICATION | DESCRIPTION |
|------------|---------------|---------------------|--|
| Version 13 | July 07, 2022 | - | - RT0402/RT0603/RT0805/RT1206 Extend resistor range - Add RT0100 |
| Version 12 | Apr. 21, 2020 | - | - Modified resistance range |
| Version 11 | July 2, 2019 | - | - Add 1W for 2512 |
| Version 10 | Jun. 12, 2019 | - | - Extend resistor value |
| Version 9 | Sep. 12, 2017 | - | - Add $\pm 0.02\%$ tol. for 0402 to 1206 |
| Version 8 | May 31, 2017 | - | - Add 10" packing |
| Version 7 | Jan. 17, 2017 | - | - Add $\pm 0.01\%$ tol. for 0402 to 1206 |
| Version 6 | May. 11, 2015 | - | - Extend resistor value |
| Version 5 | Aug. 22, 2014 | - | - Add RT0201 - RT0402/0603/0805/1206: resistance range and operating temperature range updated - Fig. 6 updated |
| Version 4 | Oct 21, 2009 | - | - Test Items and methods updated - Test requirements upgraded |
| Version 3 | Jul 11, 2008 | - | - Change to dual brand datasheet that describe RT0402 to RT2512 with RoHS compliant - Description of "Halogen Free Epoxy" added - Define global part number - Modify electrical characteristic |
| Version 2 | Dec 26, 2005 | - | - New datasheet for thin film high precision - high stability chip resistors sizes of 0201/0402/0603/0805/1206/1210/2010/2512, 1%, 0.5%, 0.25%, 0.1%, 0.05%, TC25/50 with lead-free terminations - Replace the 0402 to 1210 parts of pdf files: TFx10_1_1, TFx11_5_2, TFx12_25_2, TFx13_1_3, TFx14_05_1, TFx20_1_2, TFx21_5_2, TFx22_25_2, TFx23_1_2, TFx24_05_1, and combine into a document. - Test method and procedure updated - PE tape added (paper tape will be replaced by PE tape) |

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[NTR06B1003CTRF](#) [NTR12B1003CTRF](#) [NTR50D1R00CTRF](#) [PRL1632-R008-F-T5](#) [NTR50B30R1CTRF](#) [RT1220P-101-M](#) [ERA-](#)
[3EEB2212V](#) [ERA-3EEB1691V](#) [ERA-3EEB1961V](#) [ERA-3EEB1402V](#) [ERA-3EEB1542V](#) [ERA-3EEB1912V](#) [ERA-3EEB3741V](#) [ERA-](#)
[3EEB4871V](#) [ERA-3EEB6041V](#) [ERA-3EEB7681V](#) [M55342K06B30D1RT3](#) [BLU1206-1001-FT50W](#) [BLU1206-7871-FT50W](#) [BLU1206-](#)
[1402-FT50W](#) [BLU1206-2002-FT50W](#) [BLU1206-1003-FT50W](#) [BLU1206-1823-FT50W](#) [BLU0603-1003-BT25W](#) [RNCF1206DTE6K81](#)
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