

**YAGEO**

**Product Selection Tables  
2005**

**SMD Resistors  
Yageo brand**



**YAGEO**



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# Resistor chips, General purpose / Yageo brand

General purpose, 0201 - 0805

| R-Chip General purpose |   |         |             |         |             |         |             |         |
|------------------------|---|---------|-------------|---------|-------------|---------|-------------|---------|
| General purpose        |   |         |             |         |             |         |             |         |
| Size:inch(mm)          | 0201 (0603)   |         | 0402 (1005) |         | 0603 (1608) |         | 0805 (2012) |         |
| Power rating @ 70°C    | 1/20W   |         | 1/16W       |         | 1/10W       |         | 1/8W        |         |
| Tolerance              | +5%   | +1%     | +5%         | +1%     | +5%         | +1%     | +5%         | +1%     |
| Resistance Range       | E24   | E24/E96 | E24         | E24/E96 | E24         | E24/E96 | E24         | E24/E96 |
| Jumper                 |   |         |             |         |             |         |             |         |
| 1 Ω                    |   |         |             |         |             |         |             |         |
| 1.5 Ω                  |   |         |             |         |             |         |             |         |
| 2.2 Ω                  |   |         |             |         |             |         |             |         |
| 3.3 Ω                  |   |         |             |         |             |         |             |         |
| 4.7 Ω                  |   |         |             |         |             |         |             |         |
| 6.8 Ω                  |   |         |             |         |             |         |             |         |
| 10 Ω                   |   |         |             |         |             |         |             |         |
| 15 Ω                   |   |         |             |         |             |         |             |         |
| 22 Ω                   |   |         |             |         |             |         |             |         |
| 33 Ω                   |   |         |             |         |             |         |             |         |
| 47 Ω                   |   |         |             |         |             |         |             |         |
| 68 Ω                   |   |         |             |         |             |         |             |         |
| 100 Ω                  |   |         |             |         |             |         |             |         |
| 150 Ω                  |   |         |             |         |             |         |             |         |
| 220 Ω                  |   |         |             |         |             |         |             |         |
| 330 Ω                  |   |         |             |         |             |         |             |         |
| 470 Ω                  |   |         |             |         |             |         |             |         |
| 680 Ω                  |   |         |             |         |             |         |             |         |
| 1 kΩ                   |   |         |             |         |             |         |             |         |
| 1.5 kΩ                 |   |         |             |         |             |         |             |         |
| 2.2 kΩ                 |   |         |             |         |             |         |             |         |
| 3.3 kΩ                 |   |         |             |         |             |         |             |         |
| 4.7 kΩ                 |   |         |             |         |             |         |             |         |
| 6.8 kΩ                 |   |         |             |         |             |         |             |         |
| 10 kΩ                  |   |         |             |         |             |         |             |         |
| 15 kΩ                  |   |         |             |         |             |         |             |         |
| 22 kΩ                  |   |         |             |         |             |         |             |         |
| 33 kΩ                  |   |         |             |         |             |         |             |         |
| 47 kΩ                  |   |         |             |         |             |         |             |         |
| 68 kΩ                  |   |         |             |         |             |         |             |         |
| 100 kΩ                 |   |         |             |         |             |         |             |         |
| 150 kΩ                 |   |         |             |         |             |         |             |         |
| 220 kΩ                 |   |         |             |         |             |         |             |         |
| 330 kΩ                 |   |         |             |         |             |         |             |         |
| 470 kΩ                 |   |         |             |         |             |         |             |         |
| 680 kΩ                 |   |         |             |         |             |         |             |         |
| 1 MΩ                   |   |         |             |         |             |         |             |         |
| 1.5 MΩ                 |   |         |             |         |             |         |             |         |
| 2.2 MΩ                 |   |         |             |         |             |         |             |         |
| 3.3 MΩ                 |   |         |             |         |             |         |             |         |
| 4.7 MΩ                 |   |         |             |         |             |         |             |         |
| 6.8 MΩ                 |   |         |             |         |             |         |             |         |
| 10 MΩ                  |   |         |             |         |             |         |             |         |
| 15 MΩ                  |   |         |             |         |             |         |             |         |
| 22 MΩ                  |   |         |             |         |             |         |             |         |
| Remark                 | 1. Zero Ohm Jumper<0.05 Ohm 2.22M to 100M Ohm is on request |         |             |         |             |         |             |         |

# Resistor chips, General purpose / Yageo brand

General purpose, 1206 - 2512

| R-Chip General purpose |  |         |             |         |             |         |             |         |             |         |
|------------------------|--|---------|-------------|---------|-------------|---------|-------------|---------|-------------|---------|
| General purpose        |  |         |             |         |             |         |             |         |             |         |
| Size:inch(mm)          | 1206 (3216)  |         | 1210 (3225) |         | 1218 (3248) |         | 2010 (5025) |         | 2512 (6432) |         |
| Power rating @ 70°C    | 1/4W   |         | 1/2W        |         | 1W          |         | 3/4W        |         | 1W          |         |
| Tolerance              | +5%  | +1%     | +5%         | +1%     | +5%         | +1%     | +5%         | +1%     | +5%         | +1%     |
| Resistance Range       | E24  | E24/E96 | E24         | E24/E96 | E24         | E24/E96 | E24         | E24/E96 | E24         | E24/E96 |
| Jumper                 |  |         |             |         |             |         |             |         |             |         |
| 1 Ω                    |  |         |             |         |             |         |             |         |             |         |
| 1.5 Ω                  |  |         |             |         |             |         |             |         |             |         |
| 2.2 Ω                  |  |         |             |         |             |         |             |         |             |         |
| 3.3 Ω                  |  |         |             |         |             |         |             |         |             |         |
| 4.7 Ω                  |  |         |             |         |             |         |             |         |             |         |
| 6.8 Ω                  |  |         |             |         |             |         |             |         |             |         |
| 10 Ω                   |  |         |             |         |             |         |             |         |             |         |
| 15 Ω                   |  |         |             |         |             |         |             |         |             |         |
| 22 Ω                   |  |         |             |         |             |         |             |         |             |         |
| 33 Ω                   |  |         |             |         |             |         |             |         |             |         |
| 47 Ω                   |  |         |             |         |             |         |             |         |             |         |
| 68 Ω                   |  |         |             |         |             |         |             |         |             |         |
| 100 Ω                  |  |         |             |         |             |         |             |         |             |         |
| 150 Ω                  |  |         |             |         |             |         |             |         |             |         |
| 220 Ω                  |  |         |             |         |             |         |             |         |             |         |
| 330 Ω                  |  |         |             |         |             |         |             |         |             |         |
| 470 Ω                  |  |         |             |         |             |         |             |         |             |         |
| 680 Ω                  |  |         |             |         |             |         |             |         |             |         |
| 1 kΩ                   |  |         |             |         |             |         |             |         |             |         |
| 1.5 kΩ                 |  |         |             |         |             |         |             |         |             |         |
| 2.2 kΩ                 |  |         |             |         |             |         |             |         |             |         |
| 3.3 kΩ                 |  |         |             |         |             |         |             |         |             |         |
| 4.7 kΩ                 |  |         |             |         |             |         |             |         |             |         |
| 6.8 kΩ                 |  |         |             |         |             |         |             |         |             |         |
| 10 kΩ                  |  |         |             |         |             |         |             |         |             |         |
| 15 kΩ                  |  |         |             |         |             |         |             |         |             |         |
| 22 kΩ                  |  |         |             |         |             |         |             |         |             |         |
| 33 kΩ                  |  |         |             |         |             |         |             |         |             |         |
| 47 kΩ                  |  |         |             |         |             |         |             |         |             |         |
| 68 kΩ                  |  |         |             |         |             |         |             |         |             |         |
| 100 kΩ                 |  |         |             |         |             |         |             |         |             |         |
| 150 kΩ                 |  |         |             |         |             |         |             |         |             |         |
| 220 kΩ                 |  |         |             |         |             |         |             |         |             |         |
| 330 kΩ                 |  |         |             |         |             |         |             |         |             |         |
| 470 kΩ                 |  |         |             |         |             |         |             |         |             |         |
| 680 kΩ                 |  |         |             |         |             |         |             |         |             |         |
| 1 MΩ                   |  |         |             |         |             |         |             |         |             |         |
| 1.5 MΩ                 |  |         |             |         |             |         |             |         |             |         |
| 2.2 MΩ                 |  |         |             |         |             |         |             |         |             |         |
| 3.3 MΩ                 |  |         |             |         |             |         |             |         |             |         |
| 4.7 MΩ                 |  |         |             |         |             |         |             |         |             |         |
| 6.8 MΩ                 |  |         |             |         |             |         |             |         |             |         |
| 10 MΩ                  |  |         |             |         |             |         |             |         |             |         |
| 15 MΩ                  |  |         |             |         |             |         |             |         |             |         |
| 22 MΩ                  |  |         |             |         |             |         |             |         |             |         |
| Remark                 | 1.Zero Ohm Jumper<0.05 Ohm 2.22M to 100M Ohm is on request |         |             |         |             |         |             |         |             |         |

# Resistor chips, High precision - high stability / Yageo brand

High precision - high stability, 0201 - 0603

| R-Chip High precision - high stability |  |            |            |         |             |            |            |         |             |            |            |         |
|--|--|------------|------------|---------|-------------|------------|------------|---------|-------------|------------|------------|---------|
| High precision - high stability        |  |            |            |         |             |            |            |         |             |            |            |         |
| Size:inch(mm)                          | 0201 (0603)  |            |            |         | 0402 (1005) |            |            |         | 0603 (1608) |            |            |         |
| Operation Mode                         | Precision  | Standard   | Power      |         | Precision   | Standard   | Power      |         | Precision   | Standard   | Power      |         |
| Power rating @ 70°C                    | 1/64W  | 1/20W      | 1/16W      |         | 1/64W       | 1/16W      | 1/10W      |         | 1/32W       | 1/10W      | 1/8W       |         |
| Operating Temp range (°C)              | -10 to+85  | -55 to+125 | -55 to+155 |         | -10 to+85   | -55 to+125 | -55 to+155 |         | -10 to+85   | -55 to+125 | -55 to+155 |         |
| Tolerance                              | + -1%  | + -0.5%    | + -0.25%   | + -0.1% | + -1%       | + -0.5%    | + -0.25%   | + -0.1% | + -1%       | + -0.5%    | + -0.25%   | + -0.1% |
| Resistance Range                       | E24/E96  | E24/E96    | E24/E96    | E24/E96 | E24/E96     | E24/E96    | E24/E96    | E24/E96 | E24/E96     | E24/E96    | E24/E96    | E24/E96 |
| 3 Ω                                    |  |            |            |         |             |            |            |         |             |            |            |         |
| 3.3 Ω                                  |  |            |            |         |             |            |            |         |             |            |            |         |
| 4.7 Ω                                  |  |            |            |         |             |            |            |         |             |            |            |         |
| 6.8 Ω                                  |  |            |            |         |             |            |            |         |             |            |            |         |
| 10 Ω                                   |  |            |            |         |             |            |            |         |             |            |            |         |
| 15 Ω                                   |  |            |            |         |             |            |            |         |             |            |            |         |
| 22 Ω                                   |  |            |            |         |             |            |            |         |             |            |            |         |
| 33 Ω                                   |  |            |            |         |             |            |            |         |             |            |            |         |
| 47 Ω                                   |  |            |            |         |             |            |            |         |             |            |            |         |
| 68 Ω                                   |  |            |            |         |             |            |            |         |             |            |            |         |
| 100 Ω                                  |  |            |            |         |             |            |            |         |             |            |            |         |
| 150 Ω                                  |  |            |            |         |             |            |            |         |             |            |            |         |
| 220 Ω                                  |  |            |            |         |             |            |            |         |             |            |            |         |
| 330 Ω                                  |  |            |            |         |             |            |            |         |             |            |            |         |
| 470 Ω                                  |  |            |            |         |             |            |            |         |             |            |            |         |
| 680 Ω                                  |  |            |            |         |             |            |            |         |             |            |            |         |
| 1 kΩ                                   |  |            |            |         |             |            |            |         |             |            |            |         |
| 1.5 kΩ                                 |  |            |            |         |             |            |            |         |             |            |            |         |
| 2.2 kΩ                                 |  |            |            |         |             |            |            |         |             |            |            |         |
| 3.3 kΩ                                 |  |            |            |         |             |            |            |         |             |            |            |         |
| 4.7 kΩ                                 |  |            |            |         |             |            |            |         |             |            |            |         |
| 6.8 kΩ                                 |  |            |            |         |             |            |            |         |             |            |            |         |
| 10 kΩ                                  |  |            |            |         |             |            |            |         |             |            |            |         |
| 15 kΩ                                  |  |            |            |         |             |            |            |         |             |            |            |         |
| 22 kΩ                                  |  |            |            |         |             |            |            |         |             |            |            |         |
| 33 kΩ                                  |  |            |            |         |             |            |            |         |             |            |            |         |
| 47 kΩ                                  |  |            |            |         |             |            |            |         |             |            |            |         |
| 68 kΩ                                  |  |            |            |         |             |            |            |         |             |            |            |         |
| 100 kΩ                                 |  |            |            |         |             |            |            |         |             |            |            |         |
| 150 kΩ                                 |  |            |            |         |             |            |            |         |             |            |            |         |
| 220 kΩ                                 |  |            |            |         |             |            |            |         |             |            |            |         |
| 330 kΩ                                 |  |            |            |         |             |            |            |         |             |            |            |         |
| 470 kΩ                                 |  |            |            |         |             |            |            |         |             |            |            |         |
| 680 kΩ                                 |  |            |            |         |             |            |            |         |             |            |            |         |
| Remark                                 | Jumper & Resistance range is lower to 1 Ohm and upper to 2M Ohm(depend on size) on request |            |            |         |             |            |            |         |             |            |            |         |

Note: Value in "Resistance" means the minimum one.

Note: Resistance E192; special value on request

Note: TCR=±10ppm/°C; ±15ppm/°C on Request

Note: Tolerance=±0.01%; ±0.05% on Request

Note: Power mode RT0603 on request

# Resistor chips, High precision - high stability / Yageo brand

High precision - high stability, 0805 - 1210

| R-Chip High precision - high stability |   |            |            |         |             |            |            |         |             |            |            |         |
|--|---|------------|------------|---------|-------------|------------|------------|---------|-------------|------------|------------|---------|
| High precision - high stability        |   |            |            |         |             |            |            |         |             |            |            |         |
| Size:inch(mm)                          | 0805 (2012)   |            |            |         | 1206 (3216) |            |            |         | 1210 (3225) |            |            |         |
| Operation Mode                         | Precision   | Standard   | Power      |         | Precision   | Standard   | Power      |         | Precision   | Standard   | Power      |         |
| Power rating @ 70°C                    | 1/20W   | 1/8W       | 1/5W       |         | 1/10W       | 1/8W       | 1/4W       |         | 1/8W        | 1/4W       | 2/5W       |         |
| Operating Temp range (°C)              | -10 to+85   | -55 to+125 | -55 to+155 |         | -10 to+85   | -55 to+125 | -55 to+155 |         | -10 to+85   | -55 to+125 | -55 to+155 |         |
| Tolerance                              | + -1%   | + -0.5%    | + -0.25%   | + -0.1% | + -1%       | + -0.5%    | + -0.25%   | + -0.1% | + -1%       | + -0.5%    | + -0.25%   | + -0.1% |
| Resistance Range                       | E24/E96   | E24/E96    | E24/E96    | E24/E96 | E24/E96     | E24/E96    | E24/E96    | E24/E96 | E24/E96     | E24/E96    | E24/E96    | E24/E96 |
| 1 Ω                                    |   |            |            |         |             |            |            |         |             |            |            |         |
| 1.5 Ω                                  |   |            |            |         |             |            |            |         |             |            |            |         |
| 2.2 Ω                                  |   |            |            |         |             |            |            |         |             |            |            |         |
| 3.3 Ω                                  |   |            |            |         |             |            |            |         |             |            |            |         |
| 4.7 Ω                                  |   |            |            |         |             |            |            |         |             |            |            |         |
| 6.8 Ω                                  |   |            |            |         |             |            |            |         |             |            |            |         |
| 10 Ω                                   |   |            |            |         |             |            |            |         |             |            |            |         |
| 15 Ω                                   |   |            |            |         |             |            |            |         |             |            |            |         |
| 22 Ω                                   |   |            |            |         |             |            |            |         |             |            |            |         |
| 33 Ω                                   |   |            |            |         |             |            |            |         |             |            |            |         |
| 47 Ω                                   |   |            |            |         |             |            |            |         |             |            |            |         |
| 68 Ω                                   |   |            |            |         |             |            |            |         |             |            |            |         |
| 100 Ω                                  |   |            |            |         |             |            |            |         |             |            |            |         |
| 150 Ω                                  |   |            |            |         |             |            |            |         |             |            |            |         |
| 220 Ω                                  |   |            |            |         |             |            |            |         |             |            |            |         |
| 330 Ω                                  |   |            |            |         |             |            |            |         |             |            |            |         |
| 470 Ω                                  |   |            |            |         |             |            |            |         |             |            |            |         |
| 680 Ω                                  |   |            |            |         |             |            |            |         |             |            |            |         |
| 1 kΩ                                   |   |            |            |         |             |            |            |         |             |            |            |         |
| 1.5 kΩ                                 |   |            |            |         |             |            |            |         |             |            |            |         |
| 2.2 kΩ                                 |   |            |            |         |             |            |            |         |             |            |            |         |
| 3.3 kΩ                                 |   |            |            |         |             |            |            |         |             |            |            |         |
| 4.7 kΩ                                 |   |            |            |         |             |            |            |         |             |            |            |         |
| 6.8 kΩ                                 |   |            |            |         |             |            |            |         |             |            |            |         |
| 10 kΩ                                  |   |            |            |         |             |            |            |         |             |            |            |         |
| 15 kΩ                                  |   |            |            |         |             |            |            |         |             |            |            |         |
| 22 kΩ                                  |   |            |            |         |             |            |            |         |             |            |            |         |
| 33 kΩ                                  |   |            |            |         |             |            |            |         |             |            |            |         |
| 47 kΩ                                  |   |            |            |         |             |            |            |         |             |            |            |         |
| 68 kΩ                                  |   |            |            |         |             |            |            |         |             |            |            |         |
| 100 kΩ                                 |   |            |            |         |             |            |            |         |             |            |            |         |
| 150 kΩ                                 |   |            |            |         |             |            |            |         |             |            |            |         |
| 220 kΩ                                 |   |            |            |         |             |            |            |         |             |            |            |         |
| 330 kΩ                                 |   |            |            |         |             |            |            |         |             |            |            |         |
| 470 kΩ                                 |   |            |            |         |             |            |            |         |             |            |            |         |
| 680 kΩ                                 |   |            |            |         |             |            |            |         |             |            |            |         |
| 1 MΩ                                   |   |            |            |         |             |            |            |         |             |            |            |         |
| 1.5 MΩ                                 |   |            |            |         |             |            |            |         |             |            |            |         |
| Remark                                 | 1. Jumper; Resistance E192; special value on request 2. TCR=±10ppm/°C; ±15ppm/°C on Request 3.Tolerance=±0.01%; ±0.05% on Request 4. Power mode RT0805, 1206 on request |            |            |         |             |            |            |         |             |            |            |         |

# Resistor chips, High precision - high stability / Yageo brand

High precision - high stability, 2010 - 2512

| R-Chip High precision - high stability |   |         |                |         |                |         |                |         |
|--|---|---------|----------------|---------|----------------|---------|----------------|---------|
| High precision - high stability        |   |         |                |         |                |         |                |         |
| Size:inch(mm)                          | 2010 (5025)                                       |         |                |         | 2512 (6432)    |         |                |         |
| Operation Mode                         | Standard  |         | Power          |         | Standard       |         | Power          |         |
| Power rating @ 70°C                    | 1/2W  |         | 3/4W           |         | 3/4W           |         | 1W             |         |
| Operation Temp range (°C)              | -55°C to+125°C                                    |         | -55°C to+155°C |         | -55°C to+125°C |         | -55°C to+155°C |         |
| Tolerance                              | + -1%   | + -0.5% | + -0.25%       | + -0.1% | + -1%          | + -0.5% | + -0.25%       | + -0.1% |
| Resistance Range                       | E24/E96   | E24/E96 | E24/E96        | E24/E96 | E24/E96        | E24/E96 | E24/E96        | E24/E96 |
| 10 Ω                                   |   |         |                |         |                |         |                |         |
| 15 Ω                                   |   |         |                |         |                |         |                |         |
| 22 Ω                                   |   |         |                |         |                |         |                |         |
| 33 Ω                                   |   |         |                |         |                |         |                |         |
| 47 Ω                                   |   |         |                |         |                |         |                |         |
| 68 Ω                                   |   |         |                |         |                |         |                |         |
| 100 Ω                                  |   |         |                |         |                |         |                |         |
| 150 Ω                                  |   |         |                |         |                |         |                |         |
| 220 Ω                                  |   |         |                |         |                |         |                |         |
| 330 Ω                                  |   |         |                |         |                |         |                |         |
| 470 Ω                                  |   |         |                |         |                |         |                |         |
| 680 Ω                                  |   |         |                |         |                |         |                |         |
| 1 kΩ                                   |   |         |                |         |                |         |                |         |
| 1.5 kΩ                                 |   |         |                |         |                |         |                |         |
| 2.2 kΩ                                 |   |         |                |         |                |         |                |         |
| 3.3 kΩ                                 |   |         |                |         |                |         |                |         |
| 4.7 kΩ                                 |   |         |                |         |                |         |                |         |
| 6.8 kΩ                                 |   |         |                |         |                |         |                |         |
| 10 kΩ                                  |   |         |                |         |                |         |                |         |
| 15 kΩ                                  |   |         |                |         |                |         |                |         |
| 22 kΩ                                  |   |         |                |         |                |         |                |         |
| 33 kΩ                                  |   |         |                |         |                |         |                |         |
| 47 kΩ                                  |   |         |                |         |                |         |                |         |
| 68 kΩ                                  |   |         |                |         |                |         |                |         |
| 100 kΩ                                 |   |         |                |         |                |         |                |         |
| 150 kΩ                                 |   |         |                |         |                |         |                |         |
| 220 kΩ                                 |   |         |                |         |                |         |                |         |
| 330 kΩ                                 |   |         |                |         |                |         |                |         |
| 470 kΩ                                 |   |         |                |         |                |         |                |         |
| 680 kΩ                                 |   |         |                |         |                |         |                |         |
| 1 MΩ                                   |   |         |                |         |                |         |                |         |
| Remark                                 | Jumper; Resistance E192; special value on request |         |                |         |                |         |                |         |

Note: Value in "Resistance" means the minimum one.

Note: TCR=±10ppm/°C; ±15ppm/°C on Request

Note: Tolerance=±0.01%; ±0.05% on Request

# Resistor chips, General purpose thin film / Yageo brand

## General purpose thin film, 0201-2512

| R-Chip General purpose thin film      |             |             |             |             |             |             |             |             |
|---------------------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| General purpose thin film             |             |             |             |             |             |             |             |             |
| Tolerance                             | +-1%        |             |             |             |             |             |             |             |
| Temperature Coefficient of Resistance | +-50 ppm/°C |             |             |             |             |             |             |             |
| Size:inch(mm)                         | 0201 (0603) | 0402 (1005) | 0603 (1608) | 0805 (2012) | 1206 (3216) | 1210 (3225) | 2010 (5025) | 2512 (6432) |
| Power rating @ 70°C                   | 1/20W       | 1/16W       | 1/16W       | 1/10W       | 1/8W        | 1/4W        | 1/2W        | 3/4W        |
| Resistance Range                      | E24/E96     | E24/E96     | E24/E96     | E24/E96     | E24/E96     | E24/E96     | E24/E96     | E24/E96     |
| 1 Ω                                   |             |             |             |             |             |             |             |             |
| 1.5 Ω                                 |             |             |             |             |             |             |             |             |
| 2.2 Ω                                 |             |             |             |             |             |             |             |             |
| 3.3 Ω                                 |             |             |             |             |             |             |             |             |
| 4.7 Ω                                 |             |             |             |             |             |             |             |             |
| 6.8 Ω                                 |             |             |             |             |             |             |             |             |
| 10 Ω                                  |             |             |             |             |             |             |             |             |
| 15 Ω                                  |             |             |             |             |             |             |             |             |
| 22 Ω                                  |             |             |             |             |             |             |             |             |
| 33 Ω                                  |             |             |             |             |             |             |             |             |
| 47 Ω                                  |             |             |             |             |             |             |             |             |
| 68 Ω                                  |             |             |             |             |             |             |             |             |
| 100 Ω                                 |             |             |             |             |             |             |             |             |
| 150 Ω                                 |             |             |             |             |             |             |             |             |
| 220 Ω                                 |             |             |             |             |             |             |             |             |
| 330 Ω                                 |             |             |             |             |             |             |             |             |
| 470 Ω                                 |             |             |             |             |             |             |             |             |
| 680 Ω                                 |             |             |             |             |             |             |             |             |
| 1 kΩ                                  |             |             |             |             |             |             |             |             |
| 1.5 kΩ                                |             |             |             |             |             |             |             |             |
| 2.2 kΩ                                |             |             |             |             |             |             |             |             |
| 3.3 kΩ                                |             |             |             |             |             |             |             |             |
| 4.7 kΩ                                |             |             |             |             |             |             |             |             |
| 6.8 kΩ                                |             |             |             |             |             |             |             |             |
| 10 kΩ                                 |             |             |             |             |             |             |             |             |
| 15 kΩ                                 |             |             |             |             |             |             |             |             |
| 22 kΩ                                 |             |             |             |             |             |             |             |             |
| 33 kΩ                                 |             |             |             |             |             |             |             |             |
| 47 kΩ                                 |             |             |             |             |             |             |             |             |
| 68 kΩ                                 |             |             |             |             |             |             |             |             |
| 100 kΩ                                |             |             |             |             |             |             |             |             |
| 150 kΩ                                |             |             |             |             |             |             |             |             |
| 220 kΩ                                |             |             |             |             |             |             |             |             |
| 330 kΩ                                |             |             |             |             |             |             |             |             |
| 470 kΩ                                |             |             |             |             |             |             |             |             |
| 680 kΩ                                |             |             |             |             |             |             |             |             |
| 1 MΩ                                  |             |             |             |             |             |             |             |             |
| 1.5 MΩ                                |             |             |             |             |             |             |             |             |
| Remark                                |             |             |             |             |             |             |             |             |

Note: Value in "Resistance" means the minimum one.

Note: Resistance E192; special value on request



# Resistor chips, Low ohmic / Yageo brand

Low ohmic, 0402 - 1206

| R-Chip Low Ohmic    |   |     |             |     |             |     |             |     |
|---------------------|---|-----|-------------|-----|-------------|-----|-------------|-----|
| Low Ohmic           |   |     |             |     |             |     |             |     |
| Size:inch(mm)       | 0402 (1005)   |     | 0603 (1608) |     | 0805 (2012) |     | 1206 (3216) |     |
| Power rating @ 70°C | 1/16W   |     | 1/10W       |     | 1/8W        |     | 1/4W        |     |
| Tolerance           | +5%   | +1% | +5%         | +1% | +5%         | +1% | +5%         | +1% |
| Resistance Range    | E24   | E24 | E24         | E24 | E24         | E24 | E24         | E24 |
| 0.01 Ω              |   |     |             |     |             |     |             |     |
| 0.011 Ω             |   |     |             |     |             |     |             |     |
| 0.012 Ω             |   |     |             |     |             |     |             |     |
| 0.013 Ω             |   |     |             |     |             |     |             |     |
| 0.015 Ω             |   |     |             |     |             |     |             |     |
| 0.016 Ω             |   |     |             |     |             |     |             |     |
| 0.018 Ω             |   |     |             |     |             |     |             |     |
| 0.02 Ω              |   |     |             |     |             |     |             |     |
| 0.022 Ω             |   |     |             |     |             |     |             |     |
| 0.024 Ω             |   |     |             |     |             |     |             |     |
| 0.027 Ω             |   |     |             |     |             |     |             |     |
| 0.03 Ω              |   |     |             |     |             |     |             |     |
| 0.033 Ω             |   |     |             |     |             |     |             |     |
| 0.036 Ω             |   |     |             |     |             |     |             |     |
| 0.039 Ω             |   |     |             |     |             |     |             |     |
| 0.043 Ω             |   |     |             |     |             |     |             |     |
| 0.047 Ω             |   |     |             |     |             |     |             |     |
| 0.051 Ω             |   |     |             |     |             |     |             |     |
| 0.056 Ω             |   |     |             |     |             |     |             |     |
| 0.062 Ω             |   |     |             |     |             |     |             |     |
| 0.068 Ω             |   |     |             |     |             |     |             |     |
| 0.075 Ω             |   |     |             |     |             |     |             |     |
| 0.082 Ω             |   |     |             |     |             |     |             |     |
| 0.091 Ω             |   |     |             |     |             |     |             |     |
| 0.1 Ω               |   |     |             |     |             |     |             |     |
| 0.11 Ω              |   |     |             |     |             |     |             |     |
| 0.12 Ω              |   |     |             |     |             |     |             |     |
| 0.13 Ω              |   |     |             |     |             |     |             |     |
| 0.15 Ω              |   |     |             |     |             |     |             |     |
| 0.16 Ω              |   |     |             |     |             |     |             |     |
| 0.18 Ω              |   |     |             |     |             |     |             |     |
| 0.2 Ω               |   |     |             |     |             |     |             |     |
| 0.22 Ω              |   |     |             |     |             |     |             |     |
| 0.24 Ω              |   |     |             |     |             |     |             |     |
| 0.27 Ω              |   |     |             |     |             |     |             |     |
| 0.3 Ω               |   |     |             |     |             |     |             |     |
| 0.33 Ω              |   |     |             |     |             |     |             |     |
| 0.36 Ω              |   |     |             |     |             |     |             |     |
| 0.39 Ω              |   |     |             |     |             |     |             |     |
| 0.43 Ω              |   |     |             |     |             |     |             |     |
| 0.47 Ω              |   |     |             |     |             |     |             |     |
| 0.51 Ω              |   |     |             |     |             |     |             |     |
| 0.56 Ω              |   |     |             |     |             |     |             |     |
| 0.62 Ω              |   |     |             |     |             |     |             |     |
| 0.68 Ω              |   |     |             |     |             |     |             |     |
| 0.75 Ω              |   |     |             |     |             |     |             |     |
| 0.82 Ω              |   |     |             |     |             |     |             |     |
| 0.91 Ω              |   |     |             |     |             |     |             |     |
| Remark              | 1.50mOhm ~ 100mOhm on request for 0402 2.E48/E96 on request |     |             |     |             |     |             |     |

# Resistor chips, Low ohmic / Yageo brand

Low ohmic, 2010 - 2512

| R-Chip Low Ohmic    |                    |     |             |     |             |     |             |     |
|---------------------|--------------------|-----|-------------|-----|-------------|-----|-------------|-----|
| R-Chip Low Ohmic    |                    |     |             |     |             |     |             |     |
| Size:inch(mm)       | 1210 (3225)        |     | 1218 (3248) |     | 2010 (5025) |     | 2512 (6432) |     |
| Power rating @ 70°C | 1/2W               |     | 1W          |     | 3/4W        |     | 1W          |     |
| Tolerance           | +5%                | +1% | +5%         | +1% | +5%         | +1% | +5%         | +1% |
| Resistance Range    | E24                | E24 | E24         | E24 | E24         | E24 | E24         | E24 |
| 0.01 Ω              |                    |     |             |     |             |     |             |     |
| 0.011 Ω             |                    |     |             |     |             |     |             |     |
| 0.012 Ω             |                    |     |             |     |             |     |             |     |
| 0.013 Ω             |                    |     |             |     |             |     |             |     |
| 0.015 Ω             |                    |     |             |     |             |     |             |     |
| 0.016 Ω             |                    |     |             |     |             |     |             |     |
| 0.018 Ω             |                    |     |             |     |             |     |             |     |
| 0.02 Ω              |                    |     |             |     |             |     |             |     |
| 0.022 Ω             |                    |     |             |     |             |     |             |     |
| 0.024 Ω             |                    |     |             |     |             |     |             |     |
| 0.027 Ω             |                    |     |             |     |             |     |             |     |
| 0.03 Ω              |                    |     |             |     |             |     |             |     |
| 0.033 Ω             |                    |     |             |     |             |     |             |     |
| 0.036 Ω             |                    |     |             |     |             |     |             |     |
| 0.039 Ω             |                    |     |             |     |             |     |             |     |
| 0.043 Ω             |                    |     |             |     |             |     |             |     |
| 0.047 Ω             |                    |     |             |     |             |     |             |     |
| 0.051 Ω             |                    |     |             |     |             |     |             |     |
| 0.056 Ω             |                    |     |             |     |             |     |             |     |
| 0.062 Ω             |                    |     |             |     |             |     |             |     |
| 0.068 Ω             |                    |     |             |     |             |     |             |     |
| 0.075 Ω             |                    |     |             |     |             |     |             |     |
| 0.082 Ω             |                    |     |             |     |             |     |             |     |
| 0.091 Ω             |                    |     |             |     |             |     |             |     |
| 0.1 Ω               |                    |     |             |     |             |     |             |     |
| 0.11 Ω              |                    |     |             |     |             |     |             |     |
| 0.12 Ω              |                    |     |             |     |             |     |             |     |
| 0.13 Ω              |                    |     |             |     |             |     |             |     |
| 0.15 Ω              |                    |     |             |     |             |     |             |     |
| 0.16 Ω              |                    |     |             |     |             |     |             |     |
| 0.18 Ω              |                    |     |             |     |             |     |             |     |
| 0.2 Ω               |                    |     |             |     |             |     |             |     |
| 0.22 Ω              |                    |     |             |     |             |     |             |     |
| 0.24 Ω              |                    |     |             |     |             |     |             |     |
| 0.27 Ω              |                    |     |             |     |             |     |             |     |
| 0.3 Ω               |                    |     |             |     |             |     |             |     |
| 0.33 Ω              |                    |     |             |     |             |     |             |     |
| 0.36 Ω              |                    |     |             |     |             |     |             |     |
| 0.39 Ω              |                    |     |             |     |             |     |             |     |
| 0.43 Ω              |                    |     |             |     |             |     |             |     |
| 0.47 Ω              |                    |     |             |     |             |     |             |     |
| 0.51 Ω              |                    |     |             |     |             |     |             |     |
| 0.56 Ω              |                    |     |             |     |             |     |             |     |
| 0.62 Ω              |                    |     |             |     |             |     |             |     |
| 0.68 Ω              |                    |     |             |     |             |     |             |     |
| 0.75 Ω              |                    |     |             |     |             |     |             |     |
| 0.82 Ω              |                    |     |             |     |             |     |             |     |
| 0.91 Ω              |                    |     |             |     |             |     |             |     |
| Remark              | E48/E96 on request |     |             |     |             |     |             |     |

# Resistor chips, Trimmable / Yageo brand

Trimmable, 0805

| R-Chip Trimmable    |                    |                    |
|---------------------|--------------------|--------------------|
| Trimmable           |                    |                    |
| Size:inch(mm)       | 0805 (2012)        |                    |
| Power rating @ 70°C | 1/8W               |                    |
| Tolerance           | 0/-20% (Trimmable) | 0/-30% (Trimmable) |
| Resistance Range    | E24                | E24                |
| 1 Ω                 |                    |                    |
| 1.5 Ω               |                    |                    |
| 2.2 Ω               |                    |                    |
| 3.3 Ω               |                    |                    |
| 4.7 Ω               |                    |                    |
| 6.8 Ω               |                    |                    |
| 10 Ω                |                    |                    |
| 15 Ω                |                    |                    |
| 22 Ω                |                    |                    |
| 33 Ω                |                    |                    |
| 47 Ω                |                    |                    |
| 68 Ω                |                    |                    |
| 100 Ω               |                    |                    |
| 150 Ω               |                    |                    |
| 220 Ω               |                    |                    |
| 330 Ω               |                    |                    |
| 470 Ω               |                    |                    |
| 680 Ω               |                    |                    |
| 1 kΩ                |                    |                    |
| 1.5 kΩ              |                    |                    |
| 2.2 kΩ              |                    |                    |
| 3.3 kΩ              |                    |                    |
| 4.7 kΩ              |                    |                    |
| 6.8 kΩ              |                    |                    |
| 10 kΩ               |                    |                    |
| 15 kΩ               |                    |                    |
| 22 kΩ               |                    |                    |
| 33 kΩ               |                    |                    |
| 47 kΩ               |                    |                    |
| 68 kΩ               |                    |                    |
| 100 kΩ              |                    |                    |
| 150 kΩ              |                    |                    |
| 220 kΩ              |                    |                    |
| 330 kΩ              |                    |                    |
| 470 kΩ              |                    |                    |
| 680 kΩ              |                    |                    |
| 1 MΩ                |                    |                    |
| 1.5 MΩ              |                    |                    |
| 2.2 MΩ              |                    |                    |
| 3.3 MΩ              |                    |                    |
| 4.7 MΩ              |                    |                    |
| 6.8 MΩ              |                    |                    |
| 10 MΩ               |                    |                    |
| Remark              |                    |                    |

Note: Value in "Resistance" means the minimum one.

# Resistor chips, Arrays / Yageo brand

## Arrays, convex and concave

| R-Chip Arrays       |                                   |                                   |                                   |                                   |                                   |                                   |                                   |                                   |                                   |                                    |                                   |
|---------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|------------------------------------|-----------------------------------|
| Arrays              |                                   |                                   |                                   |                                   |                                   |                                   |                                   |                                   |                                   |                                    |                                   |
| Size:inch(mm)       | 2 x 0402 (1 x 1 mm)               |                                   | 4 x 0402 (2 x 1 mm)               |                                   | 8 x 0402 (4.0 x 1.6 mm)           |                                   | 4 x 0603 (3.2 x 1.6 mm)           |                                   |                                   | 4 x 1206 (5.2 x 3.1 mm)            |                                   |
| Power rating @ 70°C | 1/16W                             |                                   | 1/16W                             |                                   | 1/16W                             |                                   | 1/16W                             |                                   |                                   | 1/8W                               |                                   |
| Tolerance           | +5%                               | +1%                               | +5%                               | +1%                               | +5%                               | +1%                               | +5%                               | +1%                               | +5%                               | +5%                                |                                   |
| Type                | R-Array/R-<br>Network<br>(convex) | R-Array/R-<br>Network<br>(convex) | R-Array/R-<br>Network<br>(convex) | R-Array/R-<br>Network<br>(convex) | R-Array/R-<br>Network<br>(convex) | R-Array/R-<br>Network<br>(convex) | R-Array/R-<br>Network<br>(convex) | R-Array/R-<br>Network<br>(convex) | R-Array/R-<br>Network<br>(convex) | R-Array/R-<br>Network<br>(concave) | R-Array/R-<br>Network<br>(convex) |
| Resistance Range    | E24                               | E24/E96                           | E24                               | E24/E96                           | E24                               | E24/E96                           | E24                               | E24/E96                           | E24                               | E24                                |                                   |
| Jumper              |                                   |                                   |                                   |                                   |                                   |                                   |                                   |                                   |                                   |                                    |                                   |
| 10 Ω                |                                   |                                   |                                   |                                   |                                   |                                   |                                   |                                   |                                   |                                    |                                   |
| 15 Ω                |                                   |                                   |                                   |                                   |                                   |                                   |                                   |                                   |                                   |                                    |                                   |
| 22 Ω                |                                   |                                   |                                   |                                   |                                   |                                   |                                   |                                   |                                   |                                    |                                   |
| 33 Ω                |                                   |                                   |                                   |                                   |                                   |                                   |                                   |                                   |                                   |                                    |                                   |
| 47 Ω                |                                   |                                   |                                   |                                   |                                   |                                   |                                   |                                   |                                   |                                    |                                   |
| 68 Ω                |                                   |                                   |                                   |                                   |                                   |                                   |                                   |                                   |                                   |                                    |                                   |
| 100 Ω               |                                   |                                   |                                   |                                   |                                   |                                   |                                   |                                   |                                   |                                    |                                   |
| 150 Ω               |                                   |                                   |                                   |                                   |                                   |                                   |                                   |                                   |                                   |                                    |                                   |
| 220 Ω               |                                   |                                   |                                   |                                   |                                   |                                   |                                   |                                   |                                   |                                    |                                   |
| 330 Ω               |                                   |                                   |                                   |                                   |                                   |                                   |                                   |                                   |                                   |                                    |                                   |
| 470 Ω               |                                   |                                   |                                   |                                   |                                   |                                   |                                   |                                   |                                   |                                    |                                   |
| 680 Ω               |                                   |                                   |                                   |                                   |                                   |                                   |                                   |                                   |                                   |                                    |                                   |
| 1 kΩ                |                                   |                                   |                                   |                                   |                                   |                                   |                                   |                                   |                                   |                                    |                                   |
| 1.5 kΩ              |                                   |                                   |                                   |                                   |                                   |                                   |                                   |                                   |                                   |                                    |                                   |
| 2.2 kΩ              |                                   |                                   |                                   |                                   |                                   |                                   |                                   |                                   |                                   |                                    |                                   |
| 3.3 kΩ              |                                   |                                   |                                   |                                   |                                   |                                   |                                   |                                   |                                   |                                    |                                   |
| 4.7 kΩ              |                                   |                                   |                                   |                                   |                                   |                                   |                                   |                                   |                                   |                                    |                                   |
| 6.8 kΩ              |                                   |                                   |                                   |                                   |                                   |                                   |                                   |                                   |                                   |                                    |                                   |
| 10 kΩ               |                                   |                                   |                                   |                                   |                                   |                                   |                                   |                                   |                                   |                                    |                                   |
| 15 kΩ               |                                   |                                   |                                   |                                   |                                   |                                   |                                   |                                   |                                   |                                    |                                   |
| 22 kΩ               |                                   |                                   |                                   |                                   |                                   |                                   |                                   |                                   |                                   |                                    |                                   |
| 33 kΩ               |                                   |                                   |                                   |                                   |                                   |                                   |                                   |                                   |                                   |                                    |                                   |
| 47 kΩ               |                                   |                                   |                                   |                                   |                                   |                                   |                                   |                                   |                                   |                                    |                                   |
| 68 kΩ               |                                   |                                   |                                   |                                   |                                   |                                   |                                   |                                   |                                   |                                    |                                   |
| 100 kΩ              |                                   |                                   |                                   |                                   |                                   |                                   |                                   |                                   |                                   |                                    |                                   |
| 150 kΩ              |                                   |                                   |                                   |                                   |                                   |                                   |                                   |                                   |                                   |                                    |                                   |
| 220 kΩ              |                                   |                                   |                                   |                                   |                                   |                                   |                                   |                                   |                                   |                                    |                                   |
| 330 kΩ              |                                   |                                   |                                   |                                   |                                   |                                   |                                   |                                   |                                   |                                    |                                   |
| 470 kΩ              |                                   |                                   |                                   |                                   |                                   |                                   |                                   |                                   |                                   |                                    |                                   |
| 680 kΩ              |                                   |                                   |                                   |                                   |                                   |                                   |                                   |                                   |                                   |                                    |                                   |
| 1 MΩ                |                                   |                                   |                                   |                                   |                                   |                                   |                                   |                                   |                                   |                                    |                                   |
| Remark              |                                   |                                   |                                   |                                   |                                   |                                   |                                   |                                   |                                   |                                    |                                   |

Note: Zero Ohm Jumper<0.05 Ohm

Note: Value in "Resistance" means the minimum one.

Note: 4\*0603 (Concave) 1% is on request

Note: 4\*1206 (Convex) 1% is on request

# Resistor chips, Network / Yageo brand

## Network

| R-Chip Network      |  |  |   |
|---------------------|--|--|---|
| Network             |  |  |   |
| Size:inch(mm)       | 0612 (1632)                                  |  | 1225 (3264)                                 |
| Power rating @ 70°C | 1/32W  |  | 1/16W                                       |
| Tolerance           | +-5%   |  | +-5%  |
| Type                | T-Type 10 Pin PIN 5 and PIN 10 no resistance | T-Type 10 Pin PIN 5 and PIN 10 no resistance | L-Type 10 Pin PIN 1 and PIN 6 no resistance |
| Resistance Range    | E24  | E24  | E24   |
| 10 Ω                |  |  |   |
| 15 Ω                |  |  |   |
| 22 Ω                |  |  |   |
| 33 Ω                |  |  |   |
| 47 Ω                |  |  |   |
| 68 Ω                |  |  |   |
| 100 Ω               |  |  |   |
| 150 Ω               |  |  |   |
| 220 Ω               |  |  |   |
| 330 Ω               |  |  |   |
| 470 Ω               |  |  |   |
| 680 Ω               |  |  |   |
| 1 kΩ                |  |  |   |
| 1.5 kΩ              |  |  |   |
| 2.2 kΩ              |  |  |   |
| 3.3 kΩ              |  |  |   |
| 4.7 kΩ              |  |  |   |
| 6.8 kΩ              |  |  |   |
| 10 kΩ               |  |  |   |
| 15 kΩ               |  |  |   |
| 22 kΩ               |  |  |   |
| 33 kΩ               |  |  |   |
| 47 kΩ               |  |  |   |
| 68 kΩ               |  |  |   |
| 100 kΩ              |  |  |   |
| 150 kΩ              |  |  |   |
| 220 kΩ              |  |  |   |
| 330 kΩ              |  |  |   |
| Remark              | 8R-Network, Convex terminations              |  |   |

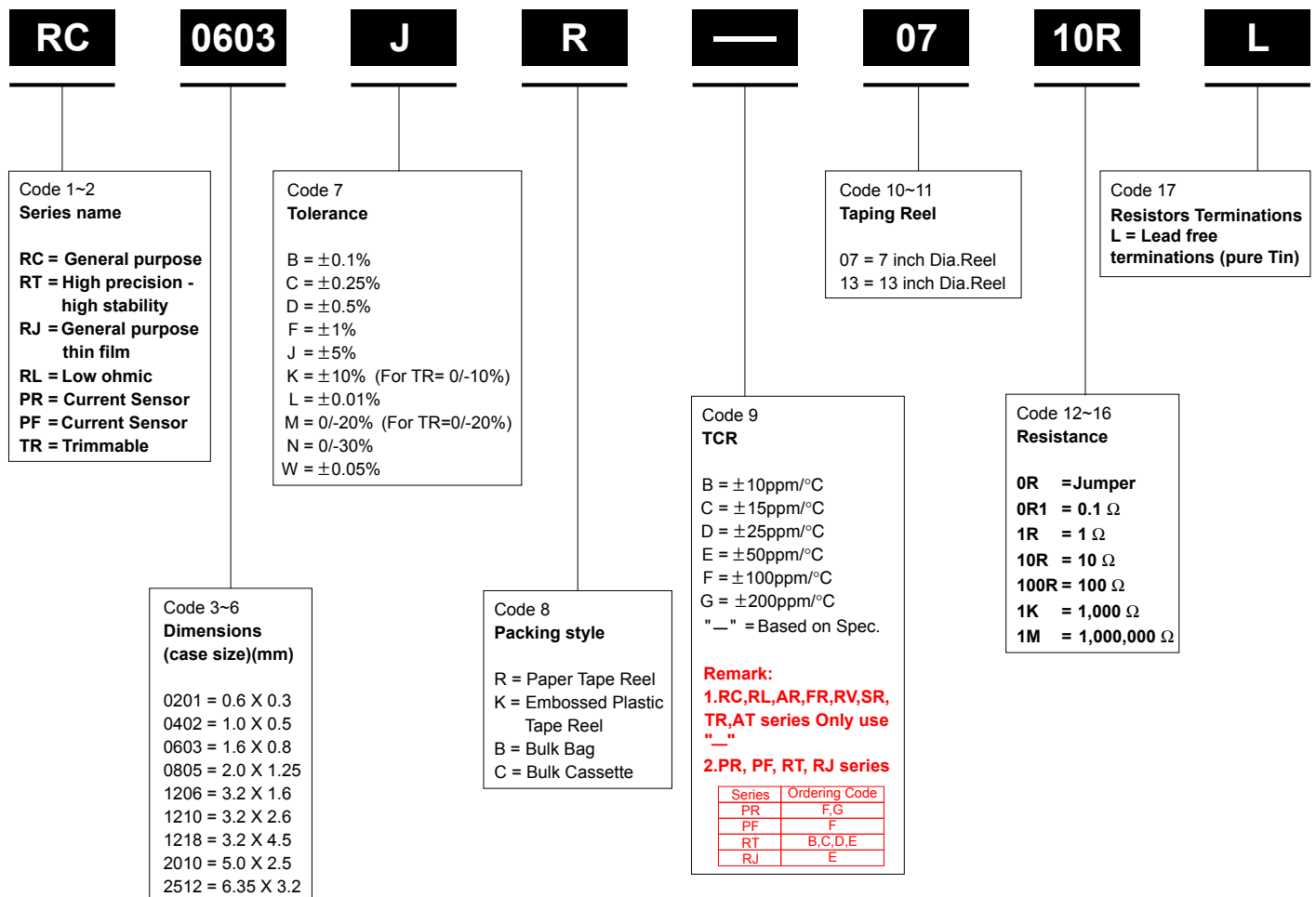
Note: Zero Ohm Jumper<0.05 Ohm

Note: Value in "Resistance" means the minimum one.

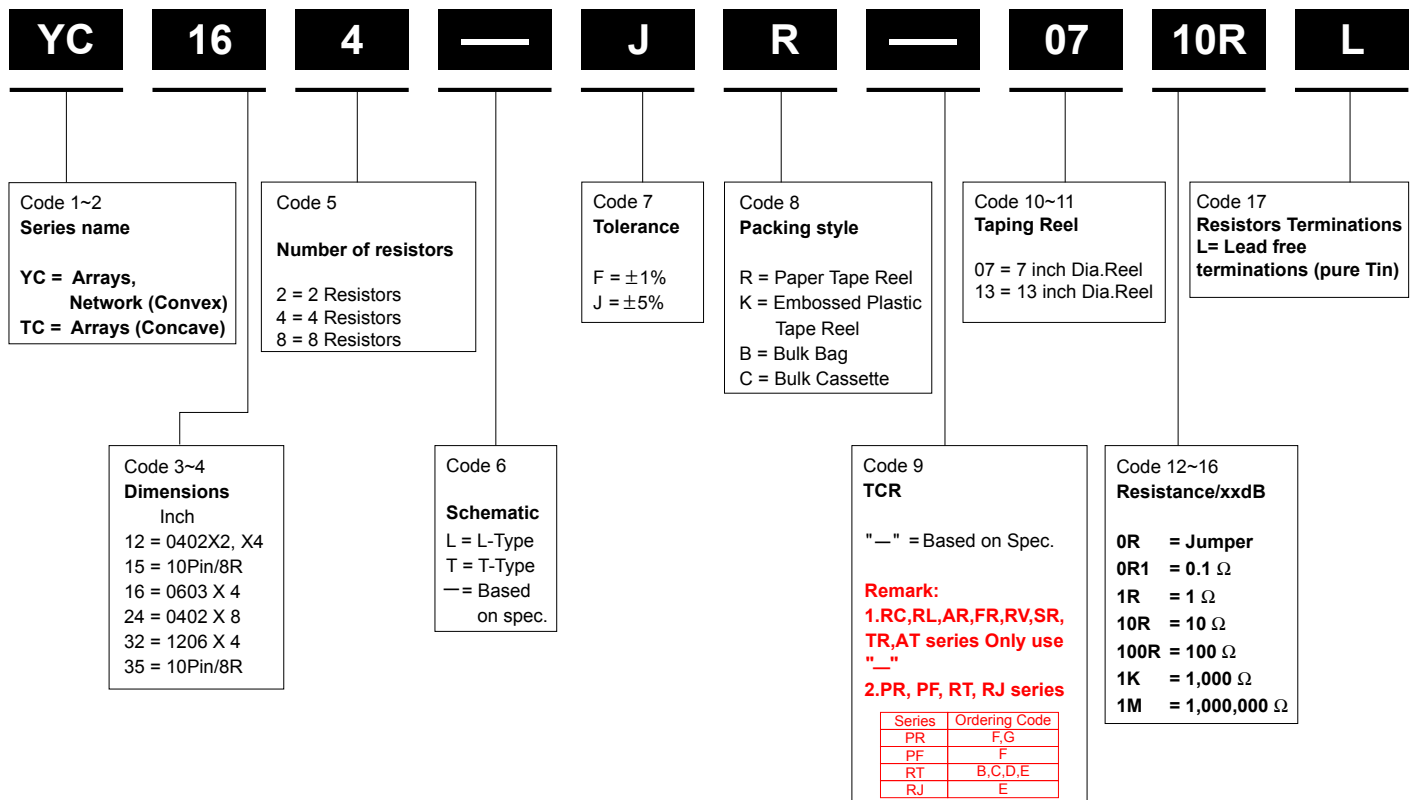
| Current sensors - Low TCR |             |     |
|---------------------------|-------------|-----|
| Current sensors           |             |     |
| Size:inch(mm)             | 2512 (6432) |     |
| Power rating @ 70°C       | 1W          |     |
| Tolerance                 | +5%         | +1% |
| 0.0010 Ω                  |             |     |
| 0.0020 Ω                  |             |     |
| 0.0030 Ω                  |             |     |
| 0.0040 Ω                  |             |     |
| 0.0050 Ω                  |             |     |
| 0.0060 Ω                  |             |     |
| 0.0070 Ω                  |             |     |
| 0.0080 Ω                  |             |     |
| 0.0090 Ω                  |             |     |
| 0.01 Ω                    |             |     |
| 0.02 Ω                    |             |     |
| 0.03 Ω                    |             |     |
| 0.04 Ω                    |             |     |
| 0.06 Ω                    |             |     |
| 0.08 Ω                    |             |     |
| 0.1 Ω                     |             |     |
| 0.2 Ω                     |             |     |
| Remark                    |             |     |

# General information

## Ordering information



### Ordering Information - Array, Network



| Packing Quantities  |            |             |          |              |          |
|---------------------|------------|-------------|----------|--------------|----------|
| Size Code           | Tape Width | 180 mm / 7" |          | 330 mm / 13" |          |
|                     |            | Paper       | Embossed | Paper        | Embossed |
| 0201                | 8 mm       | 10 000      | ---      | 50 000       | ---      |
| 0402                | 8 mm       | 10 000      | ---      | 50 000       | ---      |
| 0603                | 8 mm       | 5 000       | ---      | 20 000       | ---      |
| 0805                | 8 mm       | 5 000       | ---      | 20 000       | ---      |
| 1206                | 8 mm       | 5 000       | ---      | 20 000       | ---      |
| 1210                | 8 mm       | 5 000       | ---      | 20 000       | ---      |
| 1218                | 12 mm      | ---         | 4 000    | ---          | ---      |
| 2010                | 12 mm      | ---         | 4 000    | ---          | ---      |
| 2512                | 12 mm      | ---         | 4 000    | ---          | ---      |
| YC122 (2x0402)      | 8 mm       | 10 000      | ---      | 50 000       | ---      |
| YC124 (4x0402)      | 8 mm       | 10 000      | ---      | 40 000       | ---      |
| YC/TC16 (4x0603)    | 8 mm       | 5 000       | ---      | 20 000       | ---      |
| YC15 (0616)         | 8 mm       | 5 000       | ---      | 20 000       | ---      |
| YC24 (1220)         | 12 mm      | 5 000       | ---      | ---          | ---      |
| YC32/35 (1220/1225) | 12 mm      | ---         | 4 000    | ---          | ---      |



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