

Resistors

Surface Mount Chip Resistors

Thick Film Chip Resistors

Low Resistance Thick Film Chip Resistors

Ultra Low Value Chip Resistors

High Power Wide Term.

| Appearance | Series | Case Size | Power Rating (W) | Resistance Range | Resistance Tolerance (%) | T.C.R. (ppm/°C) | LxWxT Dimensions (mm) | Quantity 7" Reel (pcs.) | Features | | |
|--|--|-------------|------------------|------------------|--|----------------------|-----------------------|---|--|--|--|
| General Purpose 5%, 1% | ERJ-XGNJ | 01005 | 1 / 32 W | 10 ~ 1 M | ± 5 | ± 200 | 0.40 x 0.20 x 0.13 | 20,000 | ● Halogen Free | | |
| | ERJ-1GEJ | 0201 | 1 / 20 W | 1.0 ~ 1 M | ± 5 | | 0.60 x 0.3 x 0.23 | 15,000 | ● Small size and lightweight | | |
| | ERJ-1GEF | | | 10 ~ 1 M | ± 1 | | | | | | |
| | ERJ-2GEJ | 0402 | 1 / 16 W | 1.0 ~ 2.2 M | ± 5 | | 1.0 x 0.5 x 0.35 | 10,000 | ● High reliability using metal glaze thick film resistive element and three layers of electrodes | | |
| | ERJ-2RKF | | | 10 ~ 1 M | ± 1 | | | | | | |
| | ERJ-3GEYJ | 0603 | 1 / 10 W | 1.0 ~ 10 M | ± 5 | | ± 200 | 1.6 x 0.8 x 0.45 | 5,000 | ● Compatible with automatic placement of bulk taping and bulk case packaging | |
| | ERJ-3KEF | | | 10 ~ 1 M | ± 1 | | ± 100 | | | | |
| | ERJ-6ENF | 0805 | 1 / 8 W | 1.0 ~ 10 M | ± 5 | | ± 200 | 2.0 x 1.25 x 0.6 | 5,000 | ● Reflow and flow solderability | |
| | ERJ-6GEYJ | | | 10 ~ 2.2 M | ± 1 | | ± 100 | | | | |
| | ERJ-8ENF | 1206 | 1 / 4 W | 1.0 ~ 10 M | ± 5 | | ± 200 | 3.2 x 1.6 x 0.6 | 5,000 | ● Meets ISO-9001 & QS-9000 standards | |
| | ERJ-8GEYJ | | | 10 ~ 2.2 M | ± 1 | | ± 100 | | | | |
| | ERJ-14YJ | 1210 | 1 / 4 W | 1.0 ~ 10 M | ± 5 | | ± 200 | 3.2 x 2.5 x 0.6 | 5,000 | ● Low resistance tolerance: ERJ-3E; 6E; 8E; 14, 12 series: ± 1% | |
| | ERJ-14NF | | | 10 ~ 1 M | ± 1 | | ± 100 | | | | |
| | ERJ-12YJ | 1812 | 1 / 2 W | 1.0 ~ 10 M | ± 5 | | ± 200 | 4.5 x 3.2 x 0.6 | 5,000 | ● NOTE: Chip resistor 5% tolerance | |
| | ERJ-12NF | | | 10 ~ 1 M | ± 1 | | ± 100 | | | | |
| | ERJ-12ZYJ | 2010 | 1 / 2 W | 1.0 ~ 10 M | ± 5 | | ± 200 | 5.0 x 2.5 x 0.6 | 5,000 | Resistance Range (Ω) | |
| | ERJ-12SF | | | 10 ~ 1 M | ± 1 | | ± 100 | | | | <10 |
| | ERJ-1TYJ | 2512 | 1 W | 1.0 ~ 1 M | ± 5 | | ± 200 | 6.4 x 3.2 x 0.6 | 4,000 | 10 - 1 M | -100 ~ +600 |
| | ERJ-1TNF | | | 10 ~ 1 M | ± 1 | | ± 100 | | | >1M | ± 200 |
| | Current Sensing 5%, 1% | ERJ-2BWJ | 0402 | 1 / 8 W | 0.047 ~ 0.091 | | ± 5 | ± 300 | 1.0 x 0.5 x 0.35 | 10,000 | ● Small size and lightweight ● High reliability using metal glaze thick film resistive elements and three layers of electrodes ● Compatible with automatic placement of bulk taping and bulk case packaging ● Reflow and flow solderability ● Meets ISO-9001 & QS-9000 standards ● Low resistance tolerance: ERJ-2R; 3R; 6R series ... ±5%, ±1% |
| ERJ-2BSJ | | 0.10 ~ 0.20 | | | | | | | | | |
| ERJ-2BQJ | | 0603 | 1 / 10 W | 0.22 ~ 1.0 | ± 1 | ± 250 | 1.6 x 0.8 x 0.45 | 5,000 | | | |
| ERJ-2BQF | | | | 0.1 ~ 0.2 | ± 5 | 0.1 ~ 0.91 Ω ± 300 | | | | | |
| ERJ-3RSJ | | 0603 | 1 / 10 W | 0.22 ~ 0.91 | ± 5 | 0.1 ~ 0.91 Ω ± 300 | 1.6 x 0.8 x 0.45 | 5,000 | | | |
| ERJ-3RQJ | | | | 0.1 ~ 0.2 | ± 1 | 1.0 ~ 9.1 Ω ± 200 | | | | | |
| ERJ-3RSF | | 0805 | 1 / 8 W | 0.22 ~ 9.1 | ± 1 | 1.0 ~ 9.1 Ω ± 200 | 2.0 x 1.25 x 0.6 | 5,000 | | | |
| ERJ-3RQF | | | | 0.1 ~ 0.2 | ± 5 | 0.1 ~ 0.91 Ω ± 300 | | | | | |
| ERJ-6RSJ | | 0805 | 1 / 8 W | 0.22 ~ 0.91 | ± 5 | 0.1 ~ 0.91 Ω ± 300 | 2.0 x 1.25 x 0.65 | 5,000 | | | |
| ERJ-6RQJ | | | | 0.1 ~ 0.2 | ± 1 | 1.0 ~ 9.1 Ω ± 200 | | | | | |
| ERJ-6RSF | | 1206 | 1/2 W | 0.22 ~ 9.1 | ± 1 | 0.01 ~ 0.014 Ω ± 300 | 3.2 x 1.6 x 0.6 | 5,000 | | | |
| ERJ-6RQF | | | | 10m ~ 50m | ± 5 | 0.015 ~ 0.05 Ω ± 200 | | | | | |
| ERJ-8BWJ | | 1206 | 1 / 4 W | 0.01 ~ 0.1 | ± 1, 5 | ± 200 / ± 150 | 3.2 x 1.6 x 0.6 | 5,000 | | | |
| ERJ-8RSJ | | | | 0.1 ~ 0.2 | ± 5 | 0.1 ~ 0.91 Ω ± 250 | | | | | |
| ERJ-8RQJ | | 1206 | 1 / 4 W | 0.22 ~ 9.1 | ± 5 | 0.1 ~ 0.91 Ω ± 250 | 3.2 x 1.6 x 0.6 | 5,000 | | | |
| ERJ-8RSF | | | | 0.1 ~ 0.2 | ± 1 | 1.0 ~ 9.1 Ω ± 200 | | | | | |
| ERJ-8RQF | | 1210 | 1 / 4 W | 0.22 ~ 9.1 | ± 1 | 0.1 ~ 0.91 Ω ± 200 | 3.2 x 2.5 x 0.6 | 5,000 | | | |
| ERJ-14RSJ | | | | 0.1 ~ 0.2 | ± 5 | 0.1 ~ 0.91 Ω ± 200 | | | | | |
| ERJ-14RQJ | | 1210 | 1 / 4 W | 0.22 ~ 0.91 | ± 5 | 0.1 ~ 0.91 Ω ± 200 | 3.2 x 2.5 x 0.6 | 5,000 | | | |
| ERJ-14RSF | | | | 0.1 ~ 0.2 | ± 1 | 1.0 ~ 9.1 Ω ± 100 | | | | | |
| ERJ-14RQF | 1812 | 1 / 2 W | 0.22 ~ 9.1 | ± 1 | 0.1 ~ 0.91 Ω ± 200 | 4.5 x 3.2 x 0.6 | 5,000 | | | | |
| ERJ-12RSJ | | | 0.1 ~ 0.2 | ± 5 | 0.1 ~ 0.91 Ω ± 200 | | | | | | |
| ERJ-12RQJ | 1812 | 1 / 2 W | 0.22 ~ 0.91 | ± 5 | 0.1 ~ 0.91 Ω ± 200 | 4.5 x 3.2 x 0.6 | 5,000 | | | | |
| ERJ-12RSF | | | 0.1 ~ 0.2 | ± 1 | 1.0 ~ 9.1 Ω 100 | | | | | | |
| ERJ-12RQF | 2512 | 1 W | 0.22 ~ 9.1 | ± 1 | 0.1 ~ 0.91 Ω ± 200 | 6.4 x 3.2 x 0.6 | 4,000 | | | | |
| ERJ-1TRSJ | | | 0.1 ~ 0.2 | ± 5 | 0.1 ~ 0.91 Ω ± 200 | | | | | | |
| ERJ-1TRQJ | 2512 | 1 W | 0.22 ~ 0.91 | ± 5 | 0.1 ~ 0.91 Ω ± 200 | 6.4 x 3.2 x 0.6 | 4,000 | | | | |
| ERJ-1TRSF | | | 0.1 ~ 0.2 | ± 1 | 1.0 ~ 9.1 Ω ± 100 | | | | | | |
| ERJ-1TRQF | 0603 | 1 / 10 W | 0.22 ~ 0.91 | ± 1 | 1.0 ~ 9.1 Ω ± 100 | 1.6 x 0.8 x 0.45 | 5,000 | | | | |
| ERJ-L03 | | | 47 ~ 100 milli. | ± 5 | ± 200 | | | | | | |
| ERJ-L06 | 0805 | 1 / 8 W | 47 ~ 100 milli. | ± 5 | ± 100 | 2.0 x 1.25 x 0.6 | 5,000 | ● Small size and lightweight | | | |
| ERJ-L08 | 1206 | 1/4 W | 47 ~ 100 milli. | ± 5 | ± 100 | 3.2 x 1.6 x 0.6 | 5,000 | ● High reliability using metal glaze thick film resistive elements and three layers of electrodes | | | |
| ERJ-L14KJ | 1210 | 1/3 W | 20 ~ 100 milli. | ± 5 | ± 100 | 3.2 x 2.5 x 0.6 | 5,000 | ● Compatible with automatic placement of bulk taping and bulk case packaging | | | |
| ERJ-L14KF | | | ± 1 | | | | | | | | |
| ERJ-L12KJ | 1812 | 1/2 W | 20 ~ 100 milli. | ± 5 | ± 100 | 4.5 x 3.2 x 0.6 | 5,000 | ● Reflow and flow solderability | | | |
| ERJ-L12KF | | | ± 1 | | | | | | | | |
| ERJ-L1D | 2010 | 1/2 W | 40 ~ 100 milli. | ± 5 | <47 milli: ± 300 ≥47 milli: ± 100 | 5.0 x 2.5 x 0.6 | 5,000 | ● Meets ISO-9001 & QS-9000 standards | | | |
| ERJ-L1WKJ | 2512 | 1W | 40 ~ 100 milli. | ± 5 | ± 100 | 6.4 x 3.2 x 1.1 | 3,000 | ● Low resistance values for ERJ-L14; L12; L1W series: 47 mΩ ~ 100 mΩ | | | |
| ERJ-L1WKF | | | ± 1 | | | | | | | | |
| ERJ-M1WT | 2512 | 1W | 1 ~ 4 milli. | ± 5 | 1 ~ 2 mΩ ± 500 | 6.4 x 3.2 x 0.8 | 3,000 | ● Metal plate is used as resistance element | | | |
| ERJ-M1WTF | | | 3 ~ 4 milli. | ± 1 | 1 ~ 2 mΩ ± 500 | | | | | | |
| ERJ-M1WSJ | 2512 | 1W | 3 ~ 20 milli. | ± 5 | ≥ 5 mΩ: ± 100 | 6.4 x 3.2 x 0.8 | 3,000 | ● Reflow and flow solderability | | | |
| ERJ-M1WSF | | | ± 1 | < 5 mΩ: ± 350 | | | | | | | |
| ERJ-A1 | 2512 | 1.33W | 10m ~ 10k | ± 1, ± 5 | ≥100 mΩ, 1%: ± 100 ≥100 mΩ, 5%: ± 200 <100 mΩ: ± 350 | 6.4 x 3.2 x .55 | 4,000 | ● High solder joint reliability | | | |
| ERJ-B1 | 2010 | 1W | 5m ~ 1M | ± 1, ± 5 | 5-9 mΩ 1mΩ step 10m to 1m, E-24 | 5.0 x 2.5 x .55 | 5,000 | ● Excellent heat dissipation | | | |
| ERJ-B2 | 1206 | 1/2 W | 5m ~ 1M | ± 1, ± 5 | 5-9 mΩ 1mΩ step 10m to 1m, E-24 | 3.2 x 1.6 x 0.65 | 5,000 | ● Excellent heat dissipation | | | |

Surface Mount Chip Resistors

| | Appearance | Series | Case Size | Power Rating (W) | Resistance Range | Resistance Tolerance (%) | T.C.R. (ppm/°C) | LxWxT (mm) Dimensions | Quantity 7" Reel (pcs.) | Features | | | | |
|--------------------------|--|--------------------|-----------------------|--------------------------|--|---|---|--|---|--|-------------------------------|------------------|--|--|
| Thin Film Chip Resistors | <p>Ultra Precision</p> <p>0.1%, 0.5%</p> | ERA-2A | 0402 | 1/16 W | 10 ~ 100K | ± 0.1, 0.5 | ± 25 | 1.0 x 0.5 x 0.35 | 10,000 | <ul style="list-style-type: none"> ● Small size and lightweight ● High reliability ● Low T.C.R. and current noise ● Excellent non-linearity ● Reflow & flow solderability ● Meets ISO-9001 standards ● High operating temperature capability -55 to +155 for ERA-2A, ERA-3A and ERA6A types | | | | |
| | | ERA-3AEB | 0603 | 1/10 W | 47 ~ 330 K | ± 0.1 | ± 25 | 1.6 x .80 x 0.45 | 5,000 | | | | | |
| | | ERA-6AEB | 0805 | 1/8 W | 47 ~ 1 M | | | 2.0 x 1.25 x .5 | | | | | | |
| | | ERA-3YEB | 0603 | 1/10 W | 100 ~ 33 K | | | 1.6 x 0.8 x 0.45 | | | | | | |
| | | EBA-6YEB | 0805 | 1/8 W | 100 ~ 100 K | ± 0.5 | ± 25 | 2.0 x 1.25 x 0.5 | 5,000 | | | | | |
| | | ERA-14EB | 1210 | 1/4 W | 100 ~ 200 K | | | 3.2 x 2.5 x 0.6 | | | | | | |
| | | ERA-3AED | 0603 | 1/10 W | 47 ~ 330 K | | | 1.6 x .80 x 0.45 | | | | | | |
| | | ERA-6AED | 0805 | 1/8 W | 47 ~ 1 M | | | 2.0 x 1.25 x .5 | | | | | | |
| | | ERA-3AHD | 0603 | 1/10 W | 10 ~ 43 | | | 1.6 x .80 x 0.45 | | | | | | |
| | | ERA-6AHD | 0805 | 1/8 W | 10 ~ 43 | | | 2.0 x 1.25 x .5 | | | | | | |
| | | ERA-3Y_D | 0603 | 1/10 W | 10 ~ 330K | ± 50, ± 25, ± 100 | ± 50 | 1.6 x 0.8 x 0.45 | 5,000 | | | | | |
| | | ERA-6Y_D | 0805 | 1/8 W | 10 ~ 1M | | | 2.0 x 1.25 x 0.5 | | | | | | |
| | | Linear Thermistors | | ERAS | 0805 | 1 / 10 W | 10 ~ 10 K | ± 5 | 1500 ± 200 | | 2.0 x 1.25 x 0.5 | 5,000 | <ul style="list-style-type: none"> ● Excellent linearity of temperature coefficient to resistance value ● Good for temperature compensation circuit in applications such as VRM and/or PA module | |
| 43 ~ 5.1 K | ± 5 | | | | | | 2700 ± 10% | | | | | | | |
| 6.2 ~ 470 | ± 5 | | | | | | 3900 ± 10% | | | | | | | |
| ERAV | 0603 | | | 1 / 16 W | 10 ~ 10 K | ± 5 | 1500 ± 200 | 1.6 x 0.8 x 0.45 | 5,000 | | | | | |
| | | | | | 43 ~ 3.3 K | ± 5 | 2700 ± 10% | | | | | | | |
| | | | | | 7.5 ~ 390 | ± 5 | 3900 ± 10% | | | | | | | |
| ERAW | 0402 | 1 / 32 W | 43 ~ 1K | ± 5 | 2700 ± 10% | 1.0 x 0.5 x 0.35 | 10,000 | | | | | | | |
| | | | 22 ~ 390 | | 3300 ± 10% | | | | | | | | | |
| Chip Att. | <p>Chip Attenuator</p> | EXB-24AT | 0404 | 1 / 25 W Package | Attenuation Range 1 ~ 5 dB 6 ~ 10 dB | Attenuation Tolerance ± 0.3 dB ± 0.5 dB | Characteristic Impedance 50 Ω | 1.0 x 1.0 x 0.35 | 10,000 | ● Space saving design using unbalanced pie-type attenuator | | | | |
| | | ERA-38V | 0603 x 4 Convex Term | 1 / 16 W Element | 100K-220K | 0.5 | ± 25 | 3.2 x 1.6 x 0.5 | 5,000 | <ul style="list-style-type: none"> ● High density of resistors in single array chip ● Improved placement efficiency (2 to 4 times greater) compared to flat chip type resistors | | | | |
| | | EXB-14V | 0201 x 2 Convex Term | 1 / 32 W | 10 ~ 1 M | ± 5 | | | | | ± 200 x 10 ⁻⁶ / °C | 0.8 x 0.6 x 0.35 | | |
| | | EXB-18V | 0201 x 4 Flat Term | 1 / 32 W | 10 ~ 1 M | ± 5 | 10 - 1 M : ± 200 10 > : -100 - + 600 | 1.4 x 0.6 x 0.35 | 10,000 | | | | | |
| | | EXB-N8V | 0402 x 4 Concave Term | 1 / 32 W | 1 ~ 1 M | ± 5 | | 1 - 10Ω : ± 600-100x10 ⁻⁷ / °C | | | 2.0 x 1.0 x 0.45 | | | |
| | | EXB-24V | 0402 x 2 Convex Term | 1 / 16 W | 1 ~ 1 M | ± 5 ± 1 upon request | | 1.0 x 1.0 x 0.35 | | | 5,000 | | | |
| | | EXB-28V | 0402 x 4 Convex Term | 1 / 32 W | | | | 2.0 x 1.0 x 0.35 | | | | | | |
| | | EXB-2HV | 0402 x 8 Convex Term | 1 / 16 W Element | | | | 3.8 x 1.6 x 0.45 | | | | | | |
| | | EXB-34V | 0603 x 2 Convex Term | | 1.6 x 1.6 x 0.50 | | | | | | | | | |
| | | EXB-38V | 0603 x 4 Convex Term | 3.2 x 1.6 x 0.50 | | | | | | | | | | |
| | | EXB-V4V | 0603 x 2 Concave Term | 1.6 x 1.6 x 0.60 | | | | | | | | | | |
| | | EXB-V8V | 0603 x 4 Concave Term | 3.2 x 1.6 x 0.60 | | | | | | | | | | |
| | | EXB-S8V | 0805 x 4 Concave Term | 1 / 10 W Element | 10 ~ 1 M | 5.08 x 2.2 x 0.70 | | 2,500 | | | | | | |
| | | Chip R-Network | | EXB-D10C | 1206 Concave Term | 1 / 20 W Element | | 47 ~ 1 M | ± 5 | | ± 200 | 3.2 x 1.6 x 0.55 | 5,000 | <ul style="list-style-type: none"> ● High density placement for digital signal applications: 8 bussed resistors for pull up/down circuits ● Superior mountability due to unique concave terminal |
| | | | | EXB-E10C | 1608 Concave Term | 1 / 16 W Element | | | | | | 4.0 x 2.1 x 0.55 | 4,000 | |
| EXB-A10P | 2512 Concave Term | | | 1 / 16 W Element | 6.4 x 3.1 x 0.55 | 4,000 | | | | | | | | |
| Chip RC-Network | | EZA-CT | 0805 | R=1/32W C=12 V | Combination of R and C R = 10, 22, 47, 100, 220, 470, 1KΩ C = 10, 22 pF | | 2.0 x 1.25 x 0.55 | 5,000 | <ul style="list-style-type: none"> ● R-C filters for noise reduction in an 0805, 1206 & 1608 package | | | | | |
| | | EZA-DT | 1206 | R=1/16W C=12 V | Combination of R and C R = 22, 47, 100, 220, 470, 1KΩ C = 22, 47, 100 pF | | 3.2 x 1.6 x 0.65 | 5,000 | | | | | | |
| | | EZA-ST | 1608 | R=1/16W C=25 V | | | 4.0 x 2.1 x 0.65 | 4,000 | | | | | | |
| ESD Suppressors | | EZAEG3A | 0603 | C = 0.05 pF | | 1.6 x .80 x 0.5 | 5,000 | <ul style="list-style-type: none"> ● Good ESD suppression ● Good ESD withstanding ● Low capacitance | | | | | | |
| | | EZAEG2A | 0402 | C = 0.10 pF | | 1.0 x 0.5 x 0.38 | 10,000 | | | | | | | |
| | | EZAEGCA | 0805 | C = 0.25 pF (4 Per Pkg.) | | 2.6 x 1.85 x 0.5 | 5,000 | | | | | | | |

■ EIA Standard Resistance Values E-96 Tolerance *1% | E-24 Tolerance *5%, 0.5%, 0.1%