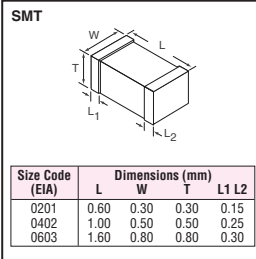


Panasonic® Multilayer Chip NTC Thermistors (ERTJ)



The Multilayer Chip NTC Thermistors are especially designed for surface mountings featuring the miniature sizes of "0201", "0402" and "0603" type (EIA) with highly reliable multilayer and monolithic structure. **FEATURES:** • Highly reliable multilayer/monolithic structure • Superior heat resistance to reflow soldering and excellent solderability thanks to the unique external electrodes of three metallic layers • Operating Temperature Range: -40°C ~ 125°C • Resistance to Soldering Heat: 270°C-3s, 260°C-10s • Heat Dissipation Constant (mounted on a glass epoxy, 1.6t): **0201 Series:** approximately 1mw/°C, **0402 Series:** approximately 2mw/°C and **0603 Series:** approximately 3mw/°C • Rated Maximum Power Dissipation: **0201 Series:** 33 mW, **0402 Series:** 66 mW and **0603 Series:** 100 mW



| Zero-Power Resist. (at 25°C) | Resistance Tol. | B Value | | Digi-Key Part No. | Cut Tape Pricing 100 | | | Tape & Reel Qty. Pricing | | Panasonic Part No. |
|------------------------------|-----------------|-----------|-----------|-------------------|----------------------|-------|--------|--------------------------|-----------|--------------------|
| | | B25/50 | B25/85 | | 1 | 100 | Qty. | Pricing | | |
| 0201 | | | | | | | | | | |
| 2KΩ | ±5% | 4500K ±2% | (4450K) | P12020CT-ND | 2.64 | 19.98 | 149.81 | 15,000 | 833.20/M | ERT-JZET202J |
| 3KΩ | ±5% | 4500K ±2% | (4450K) | P12021CT-ND | 2.64 | 19.98 | 149.81 | 15,000 | 833.20/M | ERT-JZET302J |
| 4.7KΩ | ±5% | 4500K ±2% | — | P12805CT-ND | 1.11 | 8.33 | 62.57 | 15,000 | 348.59/M | ERT-JZET472J |
| 10KΩ | ±5% | — | 3435K ±2% | P12358CT-ND | 1.02 | 9.10 | 71.33 | 15,000 | 348.59/M | ERT-JZEG103JA |
| 47KΩ | ±5% | 4050K ±3% | — | P12359CT-ND | 1.02 | 9.10 | 71.33 | 15,000 | 348.59/M | ERT-JZEP473J |
| 100KΩ | ±3% | 4500K ±3% | (4750K) | P13700CT-ND | 3.40 | 22.53 | 145.72 | 15,000 | 569.64/M | ERT-JZEV104H |
| 100KΩ | ±5% | 4700K ±2% | — | P13700CT-ND | 1.02 | 9.10 | 71.33 | 15,000 | 348.59/M | ERT-JZEV104J |
| 0402 | | | | | | | | | | |
| 22Ω | ±5% | 2750K ±3% | (2700K) | P10557CT-ND | 3.06 | 20.57 | 133.23 | 10,000 | 518.63/M | ERT-JOEA220J |
| 33Ω | ±5% | 2750K ±3% | (2700K) | P10558CT-ND | 3.06 | 20.57 | 133.23 | 10,000 | 518.63/M | ERT-JOEA330J |
| 40Ω | ±5% | 2750K ±3% | (2700K) | P10559CT-ND | 3.06 | 20.57 | 133.23 | 10,000 | 518.63/M | ERT-JOEA400J |
| 47Ω | ±5% | 2750K ±3% | (2700K) | P10560CT-ND | 3.06 | 20.57 | 133.23 | 10,000 | 518.63/M | ERT-JOEA470J |
| 68Ω | ±5% | 2800K ±3% | (2700K) | P10561CT-ND | 3.06 | 20.57 | 133.23 | 10,000 | 518.63/M | ERT-JOEA680J |
| 100Ω | ±5% | 2800K ±3% | (2750K) | P10562CT-ND | 3.06 | 20.57 | 133.23 | 10,000 | 518.63/M | ERT-JOEA101J |
| 150Ω | ±5% | 2800K ±3% | (2750K) | P10563CT-ND | 3.06 | 20.57 | 133.23 | 10,000 | 518.63/M | ERT-JOEA151J |
| 1.0KΩ | ±5% | 4500K ±3% | (4450K) | P10564CT-ND | 2.72 | 18.02 | 116.48 | 10,000 | 459.11/M | ERT-JOET102J |
| 1.5KΩ | ±5% | 4500K ±3% | (4450K) | P10565CT-ND | 2.72 | 18.02 | 116.48 | 10,000 | 459.11/M | ERT-JOET152J |
| 2.0KΩ | ±5% | 4500K ±3% | (4450K) | P10566CT-ND | 2.72 | 18.02 | 116.48 | 10,000 | 459.11/M | ERT-JOET202J |
| 2.2KΩ | ±5% | 4500K ±3% | (4450K) | P10567CT-ND | 2.72 | 18.02 | 116.48 | 10,000 | 459.11/M | ERT-JOET222J |
| 3.0KΩ | ±5% | 4500K ±3% | (4450K) | P10568CT-ND | 2.72 | 18.02 | 116.48 | 10,000 | 459.11/M | ERT-JOET302J |
| 3.3KΩ | ±5% | 4500K ±3% | (4450K) | P10569CT-ND | 2.72 | 18.02 | 116.48 | 10,000 | 459.11/M | ERT-JOET332J |
| 4.7KΩ | ±5% | 4500K ±3% | (4450K) | P10570CT-ND | 2.72 | 18.02 | 116.48 | 10,000 | 459.11/M | ERT-JOET472J |
| 3.3KΩ | ±5% | 4250K ±3% | (4300K) | P10571CT-ND | 2.72 | 18.02 | 116.48 | 10,000 | 459.11/M | ERT-JOER332J |
| 4.7KΩ | ±5% | 4250K ±3% | (4300K) | P10572CT-ND | 2.72 | 18.02 | 116.48 | 10,000 | 459.11/M | ERT-JOER472J |
| 6.8KΩ | ±5% | 4250K ±3% | (4300K) | P10573CT-ND | 2.72 | 18.02 | 116.48 | 10,000 | 459.11/M | ERT-JOER682J |
| 10KΩ | ±5% | 4250K ±3% | (4300K) | P10574CT-ND | 2.89 | 19.30 | 124.89 | 10,000 | 484.62/M | ERT-JOER103J |
| 10KΩ | ±1% | (3375K) | 3435K ±1% | P12007CT-ND | 5.27 | 36.13 | 242.48 | 10,000 | 1147.77/M | ERT-JOEG103FA |
| 10KΩ | ±2% | (3375K) | 3435K ±1% | P12008CT-ND | 4.42 | 30.10 | 202.01 | 10,000 | 952.23/M | ERT-JOEG103GA |
| 10KΩ | ±3% | 3900K ±2% | (3970K) | P13701CT-ND | 3.83 | 25.68 | 166.47 | 10,000 | 654.66/M | ERT-JOEM103H |
| 10KΩ | ±3% | 4250K ±2% | (4300K) | P13702CT-ND | 3.83 | 25.68 | 166.47 | 10,000 | 654.66/M | ERT-JOEM103H |
| 10KΩ | ±3% | (3375K) | 3435K ±1% | P12009CT-ND | 3.66 | 25.08 | 168.34 | 10,000 | 799.19/M | ERT-JOEG103HA |
| 10KΩ | ±5% | (3375K) | 3435K ±1% | P12010CT-ND | 2.89 | 19.30 | 124.89 | 10,000 | 484.62/M | ERT-JOEG103JA |
| 10KΩ | ±5% | 3900K ±2% | (3970K) | P12985CT-ND | 1.11 | 9.44 | 74.14 | 10,000 | 365.59/M | ERT-JOEM103J |
| 15KΩ | ±5% | 4250K ±3% | (4300K) | P10575CT-ND | 2.89 | 19.30 | 124.89 | 10,000 | 484.62/M | ERT-JOER153J |
| 22KΩ | ±5% | 4250K ±3% | (4300K) | P10576CT-ND | 2.89 | 19.30 | 124.89 | 10,000 | 484.62/M | ERT-JOER223J |
| 33KΩ | ±5% | 4050K ±2% | — | P13579CT-ND | 3.57 | 31.12 | 244.60 | 10,000 | 1198.79/M | ERT-JOEP333J |
| 33KΩ | ±5% | 4250K ±3% | (4300K) | P10577CT-ND | 2.89 | 19.30 | 124.89 | 10,000 | 484.62/M | ERT-JOER333J |
| 47KΩ | ±5% | 4700K ±3% | (4750K) | P10578CT-ND | 2.89 | 19.30 | 124.89 | 10,000 | 484.62/M | ERT-JOEV473J |
| 68KΩ | ±5% | 4700K ±3% | (4750K) | P10579CT-ND | 2.89 | 19.30 | 124.89 | 10,000 | 484.62/M | ERT-JOEV683J |
| 47KΩ | ±5% | 4050K ±2% | (4100K) | P11441CT-ND | 2.89 | 19.30 | 124.89 | 10,000 | 484.62/M | ERT-JOEP473J |
| 100KΩ | ±2% | 4700K ±2% | (4750K) | P13705CT-ND | 4.08 | 27.63 | 185.17 | 10,000 | 875.71/M | ERT-JOEV104G |
| 100KΩ | ±3% | 4500K ±2% | (4580K) | P13704CT-ND | 3.83 | 25.68 | 166.47 | 10,000 | 654.66/M | ERT-JOET104H |
| 100KΩ | ±3% | 4700K ±2% | (4750K) | P13706CT-ND | 3.83 | 25.68 | 166.47 | 10,000 | 654.66/M | ERT-JOEV104H |
| 100KΩ | ±5% | 4250K ±2% | (4300K) | P13707CT-ND | 3.66 | 25.00 | 167.66 | 10,000 | 807.69/M | ERT-JOET104J |
| 100KΩ | ±5% | 4300K ±2% | — | P13580CT-ND | 3.57 | 31.12 | 244.60 | 10,000 | 1198.79/M | ERT-JOES104J |
| 100KΩ | ±5% | 4500K ±2% | — | P12986CT-ND | 2.89 | 19.30 | 124.89 | 10,000 | 484.62/M | ERT-JOET104J |
| 100KΩ | ±5% | 4700K ±2% | (4750K) | P11442CT-ND | 2.89 | 19.30 | 124.89 | 10,000 | 484.62/M | ERT-JOEV104J |
| 150KΩ | ±5% | 4500K ±2% | — | P13581CT-ND | 3.57 | 31.12 | 244.60 | 10,000 | 1198.79/M | ERT-JOET154J |
| 150KΩ | ±5% | 4700K ±2% | (4750K) | P11443CT-ND | 2.89 | 19.30 | 124.89 | 10,000 | 484.62/M | ERT-JOEV154J |
| 220KΩ | ±5% | 4700K ±2% | (4750K) | P11444CT-ND | 2.89 | 19.30 | 124.89 | 10,000 | 484.62/M | ERT-JOEV224J |
| 330KΩ | ±5% | 4700K ±2% | (4750K) | P11445CT-ND | 2.89 | 19.30 | 124.89 | 10,000 | 484.62/M | ERT-JOEV334J |
| 470KΩ | ±5% | 4700K ±2% | (4750K) | P11446CT-ND | 2.89 | 19.30 | 124.89 | 10,000 | 484.62/M | ERT-JOEV474J |
| 0603 | | | | | | | | | | |
| 22Ω | ±5% | 2750K ±3% | (2700K) | P10531CT-ND | 4.34 | 28.91 | 187.30 | 4,000 | 799.19/M | ERT-J1VA220J |
| 33Ω | ±5% | 2750K ±3% | (2700K) | P10532CT-ND | 4.34 | 28.91 | 187.30 | 4,000 | 799.19/M | ERT-J1VA330J |
| 40Ω | ±5% | 2800K ±3% | (2750K) | P10533CT-ND | 4.34 | 28.91 | 187.30 | 4,000 | 799.19/M | ERT-J1VA400J |
| 47Ω | ±5% | 2800K ±3% | (2750K) | P10534CT-ND | 4.34 | 28.91 | 187.30 | 4,000 | 799.19/M | ERT-J1VA470J |
| 68Ω | ±5% | 2800K ±3% | (2750K) | P10535CT-ND | 4.34 | 28.91 | 187.30 | 4,000 | 799.19/M | ERT-J1VA680J |
| 100Ω | ±5% | 2800K ±3% | (2750K) | P10536CT-ND | 4.34 | 28.91 | 187.30 | 4,000 | 799.19/M | ERT-J1VA101J |
| 1.0KΩ | ±5% | 4500K ±3% | (4450K) | P10537CT-ND | 3.83 | 25.68 | 166.47 | 4,000 | 714.17/M | ERT-J1VT102J |
| 1.5KΩ | ±5% | 4500K ±3% | (4450K) | P10538CT-ND | 3.83 | 25.68 | 166.47 | 4,000 | 714.17/M | ERT-J1VT152J |
| 2.0KΩ | ±5% | 4500K ±3% | (4450K) | P10539CT-ND | 3.83 | 25.68 | 166.47 | 4,000 | 714.17/M | ERT-J1VT202J |
| 2.2KΩ | ±5% | 4500K ±3% | (4450K) | P10540CT-ND | 3.83 | 25.68 | 166.47 | 4,000 | 714.17/M | ERT-J1VT222J |
| 3.0KΩ | ±5% | 4500K ±3% | (4450K) | P10541CT-ND | 3.83 | 25.68 | 166.47 | 4,000 | 714.17/M | ERT-J1VT302J |
| 3.3KΩ | ±5% | 4250K ±3% | (4300K) | P10542CT-ND | 3.83 | 25.68 | 166.47 | 4,000 | 714.17/M | ERT-J1VR332J |
| 3.3KΩ | ±5% | 4500K ±3% | (4450K) | P10543CT-ND | 3.83 | 25.68 | 166.47 | 4,000 | 714.17/M | ERT-J1VT332J |
| 4.7KΩ | ±5% | 4500K ±3% | (4450K) | P10544CT-ND | 3.83 | 25.68 | 166.47 | 4,000 | 714.17/M | ERT-J1VT472J |
| 4.7KΩ | ±5% | 4250K ±3% | (4300K) | P10545CT-ND | 3.83 | 25.68 | 166.47 | 4,000 | 714.17/M | ERT-J1VR472J |
| 6.8KΩ | ±5% | 4250K ±3% | (4300K) | P10546CT-ND | 3.83 | 25.68 | 166.47 | 4,000 | 714.17/M | ERT-J1VR682J |
| 10KΩ | ±1% | (3375K) | 3435K ±1% | P12011CT-ND | 5.02 | 34.09 | 228.45 | 4,000 | 1105.26/M | ERT-J1VG103FA |
| 10KΩ | ±2% | (3375K) | 3435K ±1% | P12012CT-ND | 4.59 | 31.46 | 211.10 | 4,000 | 1020.24/M | ERT-J1VG103GA |
| 10KΩ | ±3% | (3375K) | 3435K ±1% | P12013CT-ND | 3.66 | 25.08 | 168.34 | 4,000 | 816.20/M | ERT-J1VG103HA |
| 10KΩ | ±3% | 4250K ±2% | (4300K) | P13707CT-ND | 4.59 | 30.86 | 199.71 | 4,000 | 1003.24/M | ERT-J1VR103H |
| 10KΩ | ±5% | (3375K) | 3435K ±1% | P12014CT-ND | 2.38 | 17.43 | 124.81 | 4,000 | 646.16/M | ERT-J1VG103JA |
| 10KΩ | ±5% | 4250K ±3% | (4300K) | P10547CT-ND | 3.83 | 25.68 | 166.47 | 4,000 | 714.17/M | ERT-J1VR103J |
| 15KΩ | ±5% | 4250K ±3% | (4300K) | P10548CT-ND | 3.83 | 25.68 | 166.47 | 4,000 | 714.17/M | ERT-J1VR153J |
| 22KΩ | ±5% | 4250K ±3% | (4300K) | P10549CT-ND | 3.83 | 25.68 | 166.47 | 4,000 | 714.17/M | ERT-J1VR223J |
| 33KΩ | ±5% | 4250K ±3% | (4300K) | P10550CT-ND | 3.83 | 25.68 | 166.47 | 4,000 | 714.17/M | ERT-J1VR333J |
| 47KΩ | ±5% | 4250K ±3% | (4300K) | P10551CT-ND | 3.83 | 25.68 | 166.47 | 4,000 | 714.17/M | ERT-J1VR473J |
| 47KΩ | ±5% | 4050K ±2% | (4100K) | P12015CT-ND | 3.83 | 25.68 | 166.47 | 4,000 | 714.17/M | ERT-J1VP473J |
| 47KΩ | ±5% | 4700K ±3% | (4750K) | P10553CT-ND | 3.83 | 25.68 | 166.47 | 4,000 | 714.17/M | ERT-J1VV473J |
| 68KΩ | ±5% | 4250K ±3% | (4300K) | P10552CT-ND | 3.83 | 25.68 | 166.47 | 4,000 | 714.17/M | ERT-J1VR683J |
| 68KΩ | ±5% | 4700K ±3% | (4750K) | P10554CT-ND | 3.83 | 25.68 | 166.47 | 4,000 | 714.17/M | ERT-J1VV683J |
| 100KΩ | ±1% | (4330K) | 4390K ±1% | P12016CT-ND | 5.78 | 39.70 | 266.28 | 4,000 | 1283.81/M | ERT-J1VS104FA |
| 100KΩ | ±2% | (4330K) | 4390K ±1% | P12017CT-ND | 5.36 | 36.73 | 242.22 | 4,000 | 1190.28/M | ERT-J1VS104GA |
| 100KΩ | ±3% | (4330K) | 4390K ±1% | P12018CT-ND | 3.66 | 25.08 | 168.34 | 4,000 | | |