

TAIYO YUDEN

Multilayer Ceramic Chip Capacitor Arrays

Features:

Internal electrode is nickel for increased cost performance and reliability

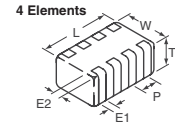
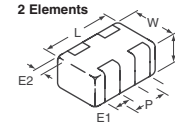
Applications:

Communication Equipment: Mobile Phones, PHS, Cordless Phones, etc.

Operating Temperature Range:

- X7R: -55° ~ 125°C
- X5R: -55° ~ 85°C

| Type (Size Code) | Dimensions (mm) | | | | |
|------------------|-----------------|-------------|------|------|------|
| | L | W | E1 | E2 | P |
| □2K110 (0504) | 1.37 | 1.00 ± 0.08 | 0.36 | 0.20 | 0.64 |
| □4K212 (0805) | 2.00 | 1.25 ± 0.10 | 0.25 | 0.25 | 0.50 |



| Size Code | Type | WV DC | Capacitance | Tolerance | Dimension T (mm) | Digi-Key Part No. | Cut Tape Pricing | | | Digi-Key Part No. | Tape and Reel | | Taiyo Yuden Part No. |
|-------------------|------|-------|-------------|-----------|------------------|-------------------|------------------|-------|-------|-------------------|---------------|---------|----------------------|
| | | | | | | | 10 | 100 | 500 | | Qty. | Pricing | |
| 2 Elements | | | | | | | | | | | | | |
| 0504 | X7R | 25 | .10µF | ±10% | 0.6 | 587-1034-1-ND | 1.28 | 7.55 | 21.78 | 587-1034-2-ND | 4,000 | 21.06/M | T2K110BJ104KB-T |
| | | 16 | .10µF | ±10% | 0.6 | 587-1036-1-ND | 1.28 | 7.55 | 21.78 | 587-1036-2-ND | 4,000 | 21.06/M | E2K110B7104KB-T |
| 4 Elements | | | | | | | | | | | | | |
| 0805 | X5R | 25 | .10µF | ±10% | 0.85 | 587-1045-1-ND | 3.27 | 19.35 | 55.81 | 587-1045-2-ND | 4,000 | 53.73/M | T4K212BJ104KD-T |
| | | 16 | .10µF | ±10% | 0.85 | 587-1046-1-ND | 2.08 | 12.27 | 35.39 | 587-1046-2-ND | 4,000 | 34.13/M | E4K212B7104KD-T |
| | | 10 | .22µF | ±10% | 0.85 | 587-1047-1-ND | 3.75 | 22.18 | 63.98 | 587-1047-2-ND | 4,000 | 61.71/M | L4K212BJ224KD-T |

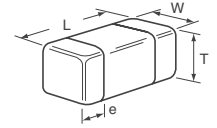
Super Low Distortion Multilayer Ceramic Capacitors (CFCAP)

Features: Newly developed dielectric material and the use of nickel for internal electrodes provide excellent temperature characteristics with high capacitance, small case size, and low cost. Low distortion and low shock noise make these capacitors well-suited for use in analog or digital mobile devices. Excellent heat-resistance, high break-down voltage, and mechanical strength make these capacitors well suited for replacing film capacitors.

Applications: • Signal line for AV products • Analog signal coupling applications • PLL circuit of mobile phones • Good temperature characteristics for time-constant circuits, oscillation circuits and filters

Specifications: • Operating Temperature: -55°C ~ 125°C

| Type (Size Code) | Dimensions (mm) | | |
|------------------|-----------------|-------------|------|
| | L | W | e |
| □MK105 (0402) | 1.0 | 0.5 ± 0.05 | 0.25 |
| □MK107 (0603) | 1.6 | 0.8 ± 0.10 | 0.35 |
| □MK212 (0805) | 2.0 | 1.25 ± 0.10 | 0.5 |
| □MK316 (1206) | 3.2 | 1.6 ± 0.15 | 0.5 |



F

| Size Code | WV DC | Capacitance | Tolerance | Dimension T (mm) | Digi-Key Part No. | Cut Tape Pricing | | | Digi-Key Part No. | Tape and Reel | | Taiyo Yuden Part No. | |
|-----------|--------|-------------|-----------|------------------|-------------------|------------------|-------|---------------|-------------------|---------------|-----------------|----------------------|-----------------|
| | | | | | | 10 | 100 | 500 | | Qty. | Pricing | | |
| 0402 | 50 | 390pF | ±5% | 0.5 | 587-1462-1-ND | 3.10 | 18.31 | 52.82 | 587-1462-2-ND | 10,000 | 50.82/M | UMK105SD391JV-F | |
| | | 390pF | ±10% | 0.5 | 587-1461-1-ND | 2.90 | 17.18 | 49.55 | 587-1461-2-ND | 10,000 | 47.92/M | UMK105SD391KV-F | |
| | | 470pF | ±5% | 0.5 | 587-1464-1-ND | 3.10 | 18.31 | 52.82 | 587-1464-2-ND | 10,000 | 50.82/M | UMK105SD471JV-F | |
| | | 470pF | ±10% | 0.5 | 587-1463-1-ND | 2.82 | 16.71 | 48.19 | 587-1463-2-ND | 10,000 | 46.47/M | UMK105SD471KV-F | |
| | | 560pF | ±5% | 0.5 | 587-1466-1-ND | 3.10 | 18.31 | 52.82 | 587-1466-2-ND | 10,000 | 50.82/M | UMK105SD561JV-F | |
| | | 560pF | ±10% | 0.5 | 587-1465-1-ND | 2.90 | 17.18 | 49.55 | 587-1465-2-ND | 10,000 | 47.92/M | UMK105SD561KV-F | |
| | 25 | 1000pF | ±5% | 0.5 | 587-1051-1-ND | 3.19 | 18.88 | 54.45 | 587-1051-2-ND | 10,000 | 52.28/M | TMK105SD102JV-F | |
| | | 1200pF | ±5% | 0.5 | 587-1053-1-ND | 3.27 | 19.35 | 55.81 | 587-1053-2-ND | 10,000 | 53.73/M | TMK105SD122JV-F | |
| | | 1500pF | ±5% | 0.5 | 587-1055-1-ND | 3.11 | 18.40 | 53.09 | 587-1055-2-ND | 10,000 | 50.82/M | EMK105SD152JV-F | |
| | | 1500pF | ±10% | 0.5 | 587-1056-1-ND | 2.95 | 17.46 | 50.37 | 587-1056-2-ND | 10,000 | 48.65/M | EMK105SD152KV-F | |
| | | 1800pF | ±5% | 0.5 | 587-1057-1-ND | 3.11 | 18.40 | 53.09 | 587-1057-2-ND | 10,000 | 50.82/M | EMK105SD182JV-F | |
| | | 2200pF | ±5% | 0.5 | 587-1059-1-ND | 3.11 | 18.40 | 53.09 | 587-1059-2-ND | 10,000 | 50.82/M | EMK105SD222JV-F | |
| 16 | 2700pF | ±5% | 0.5 | 587-1061-1-ND | 3.11 | 18.40 | 53.09 | 587-1061-2-ND | 10,000 | 50.82/M | EMK105SD272JV-F | | |
| | 3300pF | ±5% | 0.5 | 587-1063-1-ND | 3.11 | 18.40 | 53.09 | 587-1063-2-ND | 10,000 | 50.82/M | LMK105SD332JV-F | | |
| | 3900pF | ±5% | 0.5 | 587-1065-1-ND | 3.35 | 19.82 | 57.17 | 587-1065-2-ND | 10,000 | 55.18/M | LMK105SD392JV-F | | |
| | 4700pF | ±5% | 0.5 | 587-1067-1-ND | 3.43 | 20.29 | 58.54 | 587-1067-2-ND | 10,000 | 55.91/M | LMK105SD472JV-F | | |
| | 4700pF | ±10% | 0.5 | 587-1068-1-ND | 3.27 | 19.35 | 55.81 | 587-1068-2-ND | 10,000 | 53.73/M | LMK105SD472KV-F | | |
| | 50 | 1000pF | ±5% | 0.8 | 587-1069-1-ND | 3.19 | 18.88 | 54.45 | 587-1069-2-ND | 4,000 | 52.28/M | UMK107SD102JA-T | |
| 0603 | 50 | 1000pF | ±10% | 0.8 | 587-1070-1-ND | 2.80 | 16.52 | 47.65 | 587-1070-2-ND | 4,000 | 45.74/M | UMK107SD102KA-T | |
| | | 1200pF | ±5% | 0.8 | 587-1071-1-ND | 3.99 | 23.60 | 68.06 | 587-1071-2-ND | 4,000 | 65.34/M | UMK107SD122JA-T | |
| | | 1500pF | ±10% | 0.8 | 587-1074-1-ND | 3.67 | 21.71 | 62.62 | 587-1074-2-ND | 4,000 | 60.26/M | UMK107SD152KA-T | |
| | | 2200pF | ±5% | 0.8 | 587-1077-1-ND | 3.75 | 22.18 | 63.98 | 587-1077-2-ND | 4,000 | 61.71/M | UMK107SD222JA-T | |
| | | 2200pF | ±10% | 0.8 | 587-1078-1-ND | 3.35 | 19.82 | 57.17 | 587-1078-2-ND | 4,000 | 55.18/M | UMK107SD222KA-T | |
| | | 2700pF | ±5% | 0.8 | 587-1079-1-ND | 3.99 | 23.60 | 68.06 | 587-1079-2-ND | 4,000 | 65.34/M | UMK107SD272JA-T | |
| | 25 | 3900pF | ±5% | 0.8 | 587-1083-1-ND | 3.59 | 21.24 | 61.26 | 587-1083-2-ND | 4,000 | 58.81/M | TMK107SD392JA-T | |
| | | 4700pF | ±5% | 0.8 | 587-1085-1-ND | 3.59 | 21.24 | 61.26 | 587-1085-2-ND | 4,000 | 58.81/M | TMK107SD472JA-T | |
| | | 6800pF | ±5% | 0.8 | 587-1089-1-ND | 3.75 | 22.18 | 63.98 | 587-1089-2-ND | 4,000 | 61.71/M | EMK107SD682JA-T | |
| | | 8200pF | ±5% | 0.8 | 587-1091-1-ND | 3.75 | 22.18 | 63.98 | 587-1091-2-ND | 4,000 | 61.71/M | EMK107SD822JA-T | |
| | | 10000pF | ±5% | 0.8 | 587-1093-1-ND | 3.19 | 18.88 | 54.45 | 587-1093-2-ND | 4,000 | 52.28/M | EMK107SD103JA-T | |
| | | 10000pF | ±10% | 0.8 | 587-1094-1-ND | 2.80 | 16.52 | 47.65 | 587-1094-2-ND | 4,000 | 45.74/M | EMK107SD103KA-T | |
| 0805 | 50 | 1200pF | ±5% | 0.8 | 587-1095-1-ND | 4.07 | 24.07 | 69.43 | 587-1095-2-ND | 4,000 | 66.80/M | LMK107SD123JA-T | |
| | | 1500pF | ±5% | 0.8 | 587-1097-1-ND | 4.07 | 24.07 | 69.43 | 587-1097-2-ND | 4,000 | 66.80/M | LMK107SD153JA-T | |
| | | 1800pF | ±5% | 0.8 | 587-1099-1-ND | 4.07 | 24.07 | 69.43 | 587-1099-2-ND | 4,000 | 66.80/M | LMK107SD183JA-T | |
| | | 2200pF | ±5% | 0.8 | 587-1101-1-ND | 4.07 | 24.07 | 69.43 | 587-1101-2-ND | 4,000 | 66.80/M | LMK107SD223JA-T | |
| | | 2200pF | ±10% | 0.8 | 587-1102-1-ND | 3.27 | 19.35 | 55.81 | 587-1102-2-ND | 4,000 | 53.73/M | LMK107SD223KA-T | |
| | | 4700pF | ±5% | 0.85 | 587-1105-1-ND | 4.23 | 25.01 | 72.15 | 587-1105-2-ND | 4,000 | 68.97/M | UMK212SD472JD-T | |
| | 35 | 16 | 1800pF | ±5% | 1.25 | 587-1119-1-ND | 4.47 | 26.43 | 76.23 | 587-1119-2-ND | 3,000 | 73.33/M | GMK212SD183JG-T |
| | | | 2200pF | ±5% | 1.25 | 587-1121-1-ND | 4.47 | 26.43 | 76.23 | 587-1121-2-ND | 3,000 | 73.33/M | GMK212SD223JG-T |
| | | | 2200pF | ±10% | 1.25 | 587-1122-1-ND | 4.15 | 24.54 | 70.79 | 587-1122-2-ND | 3,000 | 68.25/M | GMK212SD223KG-T |
| | | | 2700pF | ±5% | 1.25 | 587-1123-1-ND | 4.55 | 26.90 | 77.59 | 587-1123-2-ND | 3,000 | 74.78/M | GMK212SD273JG-T |
| | | | 3300pF | ±5% | 0.85 | 587-1125-1-ND | 4.97 | 29.35 | 84.67 | 587-1125-2-ND | 4,000 | 81.32/M | EMK212SD333JD-T |
| | | | 3300pF | ±10% | 0.85 | 587-1126-1-ND | 4.47 | 26.43 | 76.23 | 587-1126-2-ND | 4,000 | 73.33/M | EMK212SD333KD-T |
| 10 | | 4700pF | ±5% | 0.85 | 587-1127-1-ND | 4.95 | 29.26 | 84.40 | 587-1127-2-ND | 4,000 | 81.32/M | LMK212SD473JD-T | |
| | | 6800pF | ±5% | 1.25 | 587-1129-1-ND | 4.95 | 29.26 | 84.40 | 587-1129-2-ND | 3,000 | 81.32/M | LMK212SD683JG-T | |
| | | 8200pF | ±5% | 1.25 | 587-1131-1-ND | 4.95 | 29.26 | 84.40 | 587-1131-2-ND | 3,000 | 81.32/M | LMK212SD823JG-T | |
| | | 8200pF | ±10% | 1.25 | 587-1132-1-ND | 4.63 | 27.37 | 78.95 | 587-1132-2-ND | 3,000 | 75.51/M | LMK212SD823KG-T | |
| | | .10µF | ±5% | 1.25 | 587-1133-1-ND | 3.59 | 21.24 | 61.26 | 587-1133-2-ND | 3,000 | 58.81/M | LMK212SD104JG-T | |
| | | .10µF | ±10% | 1.25 | 587-1134-1-ND | 3.43 | 20.29 | 58.54 | 587-1134-2-ND | 3,000 | 55.91/M | LMK212SD104KG-T | |
| 1206 | 25 | 4700pF | ±5% | 1.15 | 587-1139-1-ND | 6.95 | 41.06 | 118.43 | 587-1139-2-ND | 3,000 | 113.99/M | TMK316SD473JF-T | |
| | | 6800pF | ±5% | 1.15 | 587-1143-1-ND | 6.95 | 41.06 | 118.43 | 587-1143-2-ND | 3,000 | 113.99/M | TMK316SD683JF-T | |
| | | .10µF | ±5% | 1.6 | 587-1147-1-ND | 5.19 | 30.67 | 88.48 | 587-1147-2-ND | 2,000 | 84.94/M | TMK316SD104JL-T | |
| | | .10µF | ±10% | 1.6 | 587-1148-1-ND | 4.71 | 27.84 | 80.32 | 587-1148-2-ND | 2,000 | 76.96/M | TMK316SD104KL-T | |

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