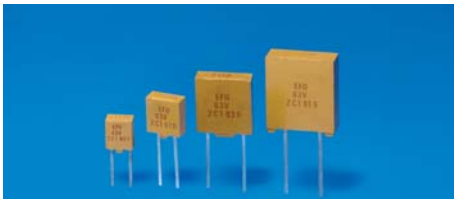
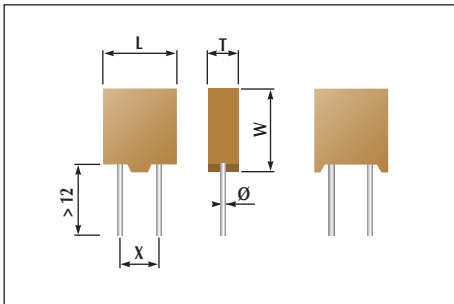


TCN 30 TCN 31



Conformes aux spécifications des normes
CECC 30700 et NF C 83132
In accordance with the specifications of
CECC 30700 and NF C 83132 standards



CARACTERISTIQUES GENERALES

| | |
|----------------------------------|--|
| Diélectrique | Céramique classe 2 |
| Technologie | Chips multicouches moulé résine époxy |
| Catégorie climatique | 55/125/56 |
| Caract. capacité temp. | 2C1 |
| Température d'utilisation | - 55°C + 125°C |
| Tension nominale U _{RC} | 50 V - 63 V - 100 V |
| Tension de tenue | 2,5 U _{RC} |
| Tangente δ à 1 kHz | ≤ 250.10 ⁻⁴ |
| Résistance d'isolement | |
| C _R ≤ 10 000 pF | ≥ 100 000 MΩ |
| C _R > 10 000 pF | ≥ 1 000 MΩ.μF |
| MARQUAGE | |
| Capacité | |
| Tolérance | |
| Tension | |
| Sous-classe | |
| Date-code | |

MAIN CHARACTERISTICS

| | |
|-------------------------------|--------------------------------------|
| Dielectric | Ceramic class 2 |
| Technology | Multilayer capacitor epoxy molded |
| Climatic category | 55/125/56 |
| Capac. temp. charact. | 2C1 |
| Operating temperature | - 55°C + 125°C |
| Rated voltage U _{RC} | 50 V - 63 V - 100 V |
| Test voltage | 2,5 U _{RC} |
| Tangent δ at 1 kHz | ≤ 250.10 ⁻⁴ |
| Insulation resistance | |
| C _R ≤ 10 000 pF | ≥ 100 000 MΩ |
| C _R > 10 000 pF | ≥ 1 000 MΩ.μF |
| MARKING | |
| Capacitance | |
| Tolerance | |
| Voltage | |
| Sub-class | |
| Date-code | |

CONDENSATEURS CERAMIQUE MOULES CLASSE 2

MOLDED CERAMIC CAPACITORS CLASS 2

| Modèle normalisé / Standard model | | | | | | | | | | Code des valeurs de C _R Capacitance value coded | Tolérances sur capacité Tolerance on capacitance | | |
|---|------|--------|----------|--------|----------|--------|------|------|------|---|---|-----|--|
| CN 30 | | CN 31 | CN 31 N | CN 31 | CN 31 N | CN 31 | | | | | | | |
| Appellation commerciale / Commercial type | | | | | | | | | | | | | |
| TCN 30 | | TCN 31 | TCN 31 N | TCN 31 | TCN 31 N | TCN 31 | | | | | | | |
| Boîtier / Case | | | | | | | | | | E6 | E12 | E24 | |
| | J | O | Y | | I | J | O | | | | | | |
| Dimensions / Dimensions (mm) | | | | | | | | | | | | | |
| L max. | 7,5 | 10 | 3,5 | | 5 | | 7,5 | | 10 | | | | |
| W max. | 8,5 | 11 | 4,5 | | 6 | | 8,5 | | 11 | | | | |
| T ± 0,2 | 2,5 | 3,5 | 2,5 | | 2,5 | | 2,5 | | 3,5 | | | | |
| X ± 0,2 | 5,08 | 5,08 | 2,54 | 5,08 | 2,54 | 5,08 | 5,08 | 5,08 | 5,08 | | | | |
| Ø -0,05 +10% | 0,6 | 0,8 | 0,6 | | 0,6 | | 0,6 | | 0,8 | | | | |
| Tension nominale / Rated voltage | | | | | | | | | | | | | |
| U _{RC} (V) | 50 | 63 | 63 | 100 | 100 | 100 | 100 | 100 | 100 | | | | |
| 100 pF | | | | | | | | | | 101 | | | |
| 120 | | | | | | | | | | 121 | | | |
| 150 | | | | | | | | | | 151 | | | |
| 180 | | | | | | | | | | 181 | | | |
| 220 | | | | | | | | | | 221 | | | |
| 270 | | | | | | | | | | 271 | | | |
| 330 | | | | | | | | | | 331 | | | |
| 390 | | | | | | | | | | 391 | | | |
| 470 | | | | | | | | | | 471 | | | |
| 560 | | | | | | | | | | 561 | | | |
| 680 | | | | | | | | | | 681 | | | |
| 820 | | | | | | | | | | 821 | | | |
| 1000 | | | | | | | | | | 102 | | | |
| 1200 | | | | | | | | | | 122 | | | |
| 1500 | | | | | | | | | | 152 | | | |
| 1800 | | | | | | | | | | 182 | | | |
| 2200 | | | | | | | | | | 222 | | | |
| 2700 | | | | | | | | | | 272 | | | |
| 3300 | | | | | | | | | | 332 | | | |
| 3900 | | | | | | | | | | 392 | | | |
| 4700 | | | | | | | | | | 472 | | | |
| 5600 | | | | | | | | | | 562 | | | |
| 6800 | | | | | | | | | | 682 | | | |
| 8200 | | | | | | | | | | 822 | | | |
| 10 nF | | | | | | | | | | 103 | | | |
| 12 | | | | | | | | | | 123 | | | |
| 15 | | | | | | | | | | 153 | | | |
| 18 | | | | | | | | | | 183 | | | |
| 22 | | | | | | | | | | 223 | | | |
| 27 | | | | | | | | | | 273 | | | |
| 33 | | | | | | | | | | 333 | | | |
| 39 | | | | | | | | | | 393 | | | |
| 47 | | | | | | | | | | 473 | | | |
| 56 | | | | | | | | | | 563 | | | |
| 68 | | | | | | | | | | 683 | | | |
| 82 | | | | | | | | | | 823 | | | |
| 100 | | | | | | | | | | 104 | | | |
| 120 | | | | | | | | | | 124 | | | |
| 150 | | | | | | | | | | 154 | | | |
| 180 | | | | | | | | | | 184 | | | |
| 220 | | | | | | | | | | 224 | | | |
| 270 | | | | | | | | | | 274 | | | |
| 330 | | | | | | | | | | 334 | | | |
| 390 | | | | | | | | | | 394 | | | |
| 470 | | | | | | | | | | 474 | | | |
| 560 | | | | | | | | | | 564 | | | |
| 680 | | | | | | | | | | 684 | | | |
| 820 | | | | | | | | | | 824 | | | |
| 1 μF | | | | | | | | | | 105 | | | |
| 1,2 | | | | | | | | | | 125 | | | |
| 1,5 | | | | | | | | | | 155 | | | |
| 1,8 | | | | | | | | | | 185 | | | |

■ Gamme normalisée / Values in standard ■ Extension / Values out of standard

Le suffixe N est valable pour les boîtiers Y et I soit entraxe : 5,08 mm (pour boîtiers Y : W + 1,8 mm).
N suffix available for Y and I cases, lead spacing : 5,08 mm (for Y cases : W + 1,8 mm).

Exemple de codification à la commande / How to order

| | | | | | | | |
|---|--|----------------------|-------------------------|---|---|-------|-----|
| Appellation commerciale Comm. type | N* : suffixe N* : suffix | W : RoHS W : RoHS | Capacité Capacitance | Tension nominale Rated voltage | Niveau de fiabilité (voir p. 6) Reliability level (see p. 6) | | |
| TCN 31 | - | - | - | 33 nF | 10 % | 100 V | - - |
| Boîtier (si extension de gamme) Case (if values out of standard) | F, R : Niveau de qualité F, R : Quality level | | Tolérance Tolerance | B : Option bande (>500 ex.) B : Band option (>500 ex.) | | | |