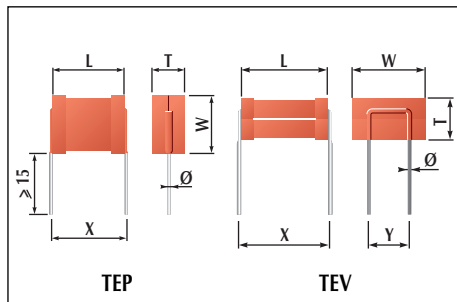


**TEP 53** à/to **TEP 65**  
**TEV 53** à/to **TEV 65**



## CARACTERISTIQUES GENERALES

|                                                                                        |                                                        |
|----------------------------------------------------------------------------------------|--------------------------------------------------------|
| Diélectrique                                                                           | Céramique classe 1                                     |
| Technologie                                                                            | Chips multicouche terminaisons soudables               |
| Température d'utilisation                                                              | -55 °C +125 °C                                         |
| Coef. de température* standard                                                         | CG (NPO)                                               |
| Tension nominale U <sub>R</sub>                                                        | 63 V - 500 V                                           |
| Tension de tenue                                                                       | 2,5 U <sub>R</sub>                                     |
| Tangente δ à 1 MHz<br>C <sub>R</sub> ≤ 50 pF                                           | ≤ 1,5 $\left(\frac{150}{C_R} + 7\right) \cdot 10^{-4}$ |
| 50 pF < C <sub>R</sub> ≤ 1 000 pF                                                      | ≤ 15 · 10 <sup>-4</sup>                                |
| Tangente δ à 1 kHz<br>C <sub>R</sub> > 1 000 pF                                        | ≤ 15 · 10 <sup>-4</sup>                                |
| Résistance d'isolement à 20 °C<br>C <sub>R</sub> ≤ 25 000 pF<br>ou Ri x C <sub>R</sub> | ≥ 20 000 MΩ                                            |
| C <sub>R</sub> > 25 000 pF                                                             | ≥ 500 MΩ.µF                                            |
| MARQUAGE                                                                               | Sur demande                                            |
| Valeur de capacité                                                                     | En clair ou en code                                    |

## MAIN CHARACTERISTICS

|                                   |                                                              |
|-----------------------------------|--------------------------------------------------------------|
| Dielectric Technology             | Ceramic class 1<br>Multilayer chips<br>weldable terminations |
| Operating temperature             | -55 °C +125 °C                                               |
| Standard temperature* coefficient | CG (NPO)                                                     |
| Rated voltage $U_{RC}$            | 63 V - 500 V                                                 |
| Test voltage                      | 2,5 $U_{RC}$                                                 |
| Tangent $\delta$ at 1 MHz         | $\leq 1,5 \left( \frac{150}{C_R} + 7 \right) \cdot 10^{-4}$  |
| $C_R \leq 50$ pF                  |                                                              |
| $50$ pF $< C_R \leq 1\,000$ pF    | $\leq 15 \cdot 10^{-4}$                                      |
| Tangent $\delta$ at 1 kHz         |                                                              |
| $C_R > 1\,000$ pF                 | $\leq 15 \cdot 10^{-4}$                                      |
| Insulation resistance at 20 °C    |                                                              |
| $C_R \leq 25\,000$ pF             | $\geq 20\,000$ M $\Omega$                                    |
| or $R_i \times C_R$               |                                                              |
| $C_R > 25\,000$ pF                | $\geq 500$ M $\Omega$ · $\mu$ F                              |
| <b>MARKING</b>                    | <b>On request</b>                                            |
| Capacitance value                 | Clear or coded                                               |

TEP 53 S à/to TEP 65 S

TEV 53 S à/to TEV 65 S

Modèles destinés à une utilisation spatiale.  
Consulter notre Service Commercial.

Models for space applications.  
Contact our Commercial department.

## COND. CERAMIQUE POUR ALIMENTATIONS A DECOUPAGE H.F. CLASSE 1

## CERAMIC CAPACITORS FOR H.F. SWITCHING POWER SUPPLIES CLASS 1

| Appellation commerciale / Commercial type |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                        |        |                                                                                        |     |    |     |     |     |    |     |     |     |    |     |     |     | Code des valeurs de Cq / Capacitance value coded | Tolérances sur capacité<br>Tolerance on capacitance |     |
|-------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|--------|----------------------------------------------------------------------------------------|-----|----|-----|-----|-----|----|-----|-----|-----|----|-----|-----|-----|--------------------------------------------------|-----------------------------------------------------|-----|
|                                           | TEP 53                                                                              | TEP 54                                                                              | TEP 55                                                                              | TEP 56                                                                              | TEP 57                                                                                 | TEP 58 | TEP 65                                                                                 |     |    |     |     |     |    |     |     |     |    |     |     |     |                                                  |                                                     |     |
|                                           | TEV 53                                                                              | TEV 54                                                                              | TEV 55                                                                              | TEV 56                                                                              | TEV 57                                                                                 | TEV 58 | TEV 65                                                                                 |     |    |     |     |     |    |     |     |     |    |     |     |     |                                                  |                                                     |     |
| Dimensions / Dimensions (mm)              |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                        |        |                                                                                        |     |    |     |     |     |    |     |     |     |    |     |     |     |                                                  |                                                     |     |
| L max.                                    | 10,6                                                                                | 12,5                                                                                | 15,8                                                                                | 17,8                                                                                | 14,1                                                                                   | 22,7   | 22,7                                                                                   |     |    |     |     |     |    |     |     |     |    |     |     |     |                                                  |                                                     |     |
| W max.                                    | 9,2                                                                                 | 12                                                                                  | 13,6                                                                                | 21,6                                                                                | 38,2                                                                                   | 40,6   | 16,6                                                                                   |     |    |     |     |     |    |     |     |     |    |     |     |     |                                                  |                                                     |     |
| X ± 0,5                                   | 8,2                                                                                 | 10,16                                                                               | 14,7                                                                                | 15,24                                                                               | 10,16                                                                                  | 21,2   | 21,2                                                                                   |     |    |     |     |     |    |     |     |     |    |     |     |     |                                                  |                                                     |     |
| Y ± 0,5                                   | 5,08                                                                                | 7,62                                                                                | 7,62                                                                                | 15,24                                                                               | 27,94                                                                                  | 30,48  | 10,16                                                                                  |     |    |     |     |     |    |     |     |     |    |     |     |     |                                                  |                                                     |     |
| Ø - 0,05 ± 10%                            | Voir tableau<br>See table                                                           | Voir tableau<br>See table                                                           | Voir tableau<br>See table                                                           | Voir tableau<br>See table                                                           | 1                                                                                      | 1,2    | Voir tableau<br>See table                                                              |     |    |     |     |     |    |     |     |     |    |     |     |     |                                                  |                                                     |     |
| T max.                                    |  4 |                                                                                     |  8 |                                                                                     |  12 |        |  16 |     |    |     |     |     |    |     |     |     |    |     |     |     |                                                  |                                                     |     |
| Tension nominale / Rated voltage          |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                        |        |                                                                                        |     |    |     |     |     |    |     |     |     |    |     |     |     |                                                  |                                                     |     |
| URC (V)                                   | 63                                                                                  | 100                                                                                 | 200                                                                                 | 500                                                                                 | 63                                                                                     | 100    | 200                                                                                    | 500 | 63 | 100 | 200 | 500 | 63 | 100 | 200 | 500 | 63 | 100 | 200 | 500 |                                                  | E6                                                  | E12 |
| 0,01 µF                                   |                                                                                     |                                                                                     |                                                                                     |    |                                                                                        |        |                                                                                        |     |    |     |     |     |    |     |     |     |    |     |     |     |                                                  | 103                                                 |     |
| 0,012                                     |                                                                                     |                                                                                     |                                                                                     |    |                                                                                        |        |                                                                                        |     |    |     |     |     |    |     |     |     |    |     |     |     |                                                  | 123                                                 |     |
| 0,015                                     |                                                                                     |                                                                                     |                                                                                     |    |                                                                                        |        |                                                                                        |     |    |     |     |     |    |     |     |     |    |     |     |     |                                                  | 153                                                 |     |
| 0,018                                     |                                                                                     |                                                                                     |                                                                                     |    |                                                                                        |        |                                                                                        |     |    |     |     |     |    |     |     |     |    |     |     |     |                                                  | 183                                                 |     |
| 0,022                                     |                                                                                     |                                                                                     |                                                                                     |    |                                                                                        |        |                                                                                        |     |    |     |     |     |    |     |     |     |    |     |     |     |                                                  | 223                                                 |     |
| 0,027                                     |                                                                                     |                                                                                     |                                                                                     |    |                                                                                        |        |                                                                                        |     |    |     |     |     |    |     |     |     |    |     |     |     |                                                  | 273                                                 |     |
| 0,033                                     |                                                                                     |                                                                                     |    |    |                                                                                        |        |                                                                                        |     |    |     |     |     |    |     |     |     |    |     |     |     |                                                  | 333                                                 |     |
| 0,039                                     |                                                                                     |                                                                                     |    |    |                                                                                        |        |                                                                                        |     |    |     |     |     |    |     |     |     |    |     |     |     |                                                  | 393                                                 |     |
| 0,047                                     |                                                                                     |    |    |    |                                                                                        |        |                                                                                        |     |    |     |     |     |    |     |     |     |    |     |     |     |                                                  | 473                                                 |     |
| 0,056                                     |                                                                                     |   |   |   |                                                                                        |        |                                                                                        |     |    |     |     |     |    |     |     |     |    |     |     |     |                                                  | 563                                                 |     |
| 0,068                                     |   |   |   |   |                                                                                        |        |                                                                                        |     |    |     |     |     |    |     |     |     |    |     |     |     |                                                  | 683                                                 |     |
| 0,082                                     |                                                                                     |  |  |  |                                                                                        |        |                                                                                        |     |    |     |     |     |    |     |     |     |    |     |     |     |                                                  | 823                                                 |     |
| 0,1                                       |                                                                                     |  |  |  |                                                                                        |        |                                                                                        |     |    |     |     |     |    |     |     |     |    |     |     |     |                                                  | 104                                                 |     |
| 0,12                                      |                                                                                     |  |  |  |                                                                                        |        |                                                                                        |     |    |     |     |     |    |     |     |     |    |     |     |     |                                                  | 124                                                 |     |
| 0,15                                      |                                                                                     |  |  |  |                                                                                        |        |                                                                                        |     |    |     |     |     |    |     |     |     |    |     |     |     |                                                  | 154                                                 |     |
| 0,18                                      |                                                                                     |  |  |  |                                                                                        |        |                                                                                        |     |    |     |     |     |    |     |     |     |    |     |     |     |                                                  | 184                                                 |     |
| 0,22                                      |                                                                                     |  |  |  |                                                                                        |        |                                                                                        |     |    |     |     |     |    |     |     |     |    |     |     |     |                                                  | 224                                                 |     |
| 0,27                                      |                                                                                     |  |  |  |                                                                                        |        |                                                                                        |     |    |     |     |     |    |     |     |     |    |     |     |     |                                                  | 274                                                 |     |
| 0,33                                      |                                                                                     |  |  |  |                                                                                        |        |                                                                                        |     |    |     |     |     |    |     |     |     |    |     |     |     |                                                  | 334                                                 |     |
| 0,39                                      |                                                                                     |  |  |  |                                                                                        |        |                                                                                        |     |    |     |     |     |    |     |     |     |    |     |     |     |                                                  | 394                                                 |     |
| 0,47                                      |                                                                                     |  |  |  |                                                                                        |        |                                                                                        |     |    |     |     |     |    |     |     |     |    |     |     |     |                                                  | 474                                                 |     |
| 0,56                                      |                                                                                     |  |  |  |                                                                                        |        |                                                                                        |     |    |     |     |     |    |     |     |     |    |     |     |     |                                                  | 564                                                 |     |
| 0,68                                      |                                                                                     |  |  |  |                                                                                        |        |                                                                                        |     |    |     |     |     |    |     |     |     |    |     |     |     |                                                  | 684                                                 |     |
| 0,82                                      |                                                                                     |  |  |  |                                                                                        |        |                                                                                        |     |    |     |     |     |    |     |     |     |    |     |     |     |                                                  | 824                                                 |     |
| 1                                         |                                                                                     |  |  |  |                                                                                        |        |                                                                                        |     |    |     |     |     |    |     |     |     |    |     |     |     |                                                  | 105                                                 |     |
| 1,2                                       |                                                                                     |  |  |  |                                                                                        |        |                                                                                        |     |    |     |     |     |    |     |     |     |    |     |     |     |                                                  | 125                                                 |     |
| 1,5                                       |                                                                                     |  |  |  |                                                                                        |        |                                                                                        |     |    |     |     |     |    |     |     |     |    |     |     |     |                                                  | 155                                                 |     |
| 1,8                                       |                                                                                     |  |  |  |                                                                                        |        |                                                                                        |     |    |     |     |     |    |     |     |     |    |     |     |     |                                                  | 185                                                 |     |
| 2,2                                       |                                                                                     |  |  |  |                                                                                        |        |                                                                                        |     |    |     |     |     |    |     |     |     |    |     |     |     |                                                  | 225                                                 |     |
| 2,7                                       |                                                                                     |  |  |  |                                                                                        |        |                                                                                        |     |    |     |     |     |    |     |     |     |    |     |     |     |                                                  | 275                                                 |     |
| 3,3                                       |                                                                                     |  |  |  |                                                                                        |        |                                                                                        |     |    |     |     |     |    |     |     |     |    |     |     |     |                                                  | 335                                                 |     |
| 3,9                                       |                                                                                     |  |  |  |                                                                                        |        |                                                                                        |     |    |     |     |     |    |     |     |     |    |     |     |     |                                                  | 395                                                 |     |
| 4,7                                       |                                                                                     |  |  |  |                                                                                        |        |                                                                                        |     |    |     |     |     |    |     |     |     |    |     |     |     |                                                  | 475                                                 |     |
| 5,6                                       |                                                                                     |  |  |  |                                                                                        |        |                                                                                        |     |    |     |     |     |    |     |     |     |    |     |     |     |                                                  | 565                                                 |     |
| 6,8                                       |                                                                                     |  |  |  |                                                                                        |        |                                                                                        |     |    |     |     |     |    |     |     |     |    |     |     |     |                                                  | 685                                                 |     |

 1 pavé / chips

 2 pavés / chips

 3 pavés / chips

 4 pavés / chips

### Exemple de codification à la commande / *How to order*

|                                                         |                             |                                |                                                                        |                               |       |                                          |
|---------------------------------------------------------|-----------------------------|--------------------------------|------------------------------------------------------------------------|-------------------------------|-------|------------------------------------------|
| Appellation commerciale<br><i>Commercial type</i>       | W : RoHS<br><i>W : RoHS</i> |                                | Niveau de fiabilité (voir p. 6)<br><i>Reliability level (see p. 6)</i> |                               |       |                                          |
| TEP 55                                                  | —                           | —                              | 10 $\mu$ F                                                             | 10 %                          | 200 V | — —                                      |
| F, S : Niveau de qualité<br><i>F, S : Quality level</i> |                             | Capacité<br><i>Capacitance</i> |                                                                        | Tolérance<br><i>Tolerance</i> |       | Tension nominale<br><i>Rated voltage</i> |