# CERAMIC capacitor, temperature and voltage dependency

1. Evaluate the voltage coefficient of capacitance for 100 nF SUPERMIT capacitor.
2. Evaluate the percentage change of capacity during the voltage rise.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **U (V)** |  |  |  |  |  |
| **C (nF)** |  |  |  |  |  |
| **ΔC (%)** |  |  |  |  |  |

1. Evaluate the range of dissipation factor change for 100 nF SUPERMIT capacitor during the temperature change from 30 °C to 100 °C.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **T (°C)** | **30** | **50** | **70** | **90** | **100** |
| **D (-)** |  |  |  |  |  |
| **DMIN (-)** |  | **DMAX (-)** |  |  |  |

# FOIL capacitor, temperature and voltage dependency

1. Evaluate the voltage coefficient of capacitance for 100 nF FOIL capacitor.
2. Evaluate the percentage change of capacity during the voltage rise.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **U (V)** |  |  |  |  |  |
| **C (nF)** |  |  |  |  |  |
| **ΔC (%)** |  |  |  |  |  |

1. Evaluate the range of dissipation factor change for 100 nF FOIL capacitor during the temperature change from 30 °C to 100 °C.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **T (°C)** | **30** | **50** | **70** | **90** | **100** |
| **D (-)** |  |  |  |  |  |
| **DMIN (-)** |  | **DMAX (-)** |  |  |  |

# FOIL VS CERAMIC, temperature dependency

1. Evaluate the temperature coefficient of capacitance for 100 nF FOIL capacitor.
2. Evaluate the percentage change of capacity during the temperature rise.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **T (°C)** | **30** | **50** | **70** | **90** | **100** |
| **C (nF)** |  |  |  |  |  |
| **ΔC (%)** |  |  |  |  |  |

1. Evaluate the range of capacity change for 100 nF SUPERMIT capacitor during the temperature change from 30 °C to 100 °C.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **T (°C)** | **30** | **50** | **70** | **90** | **100** |
| **C (nF)** |  |  |  |  |  |
| **CMIN (nF)** |  | **CMAX (nF)** |  |  |  |