



capacitors B43510-A5228-M7

URL:<https://www.sxplc.com/capacitors-b43510-a5228-m7>

Product data sheet

Rated voltage V_R Surge voltage V_S	385 ... 500 V DC $1.1 \cdot V_R$														
Rated capacitance C_R Capacitance tolerance	330 ... 3300 μ F $\pm 20\% \triangleq M$														
Dissipation factor $\tan \delta$ (20 °C, 120 Hz)	for case diameter 35 ... 45 mm: $V_R \leq 400$ V DC: $\tan \delta \leq 0.15$ $V_R > 400$ V DC: $\tan \delta \leq 0.20$ for case diameter 50 mm: $\tan \delta \leq 0.20$														
Leakage current I_{leak} (5 min, 20 °C)	$I_{leak} \leq 0.3 \mu A \cdot \left(\frac{C_R}{\mu F} \cdot \frac{V_R}{V} \right)^{0.7} + 4 \mu A$														
Self-inductance ESL	Approx. 20 nH														
Useful life ¹⁾ 85 °C; V_R ; $I_{AC,R}$ 40 °C; V_R ; $1.1 \cdot I_{AC,R}$	> 5000 h > 250000 h	Requirements: $\Delta C/C \leq \pm 20\%$ of initial value $\tan \delta \leq 2$ times initial specified limit $I_{leak} \leq$ initial specified limit													
Voltage endurance test 85 °C; V_R	2000 h	Post test requirements: $\Delta C/C \leq \pm 10\%$ of initial value $\tan \delta \leq 1.3$ times initial specified limit $I_{leak} \leq$ initial specified limit													
Vibration resistance test	To IEC 60068-2-6, test Fc: Frequency range 10 ... 55 Hz, displacement amplitude 0.35 mm, acceleration max. 5 g, duration 3 x 2 h. Capacitor mounted by its body which is rigidly clamped to the work surface.														
Characteristics at low temperature	Max. impedance ratio at 100 Hz	V_R ; d = 35 ... 45 mm V_R ; d = 50 mm $Z_{-25^\circ C} / Z_{20^\circ C}$ $Z_{-40^\circ C} / Z_{20^\circ C}$	<table border="1"> <tr> <td>≤ 400 V</td> <td>420 ... 450 V</td> <td>500 V</td> </tr> <tr> <td></td> <td>385 ... 450 V</td> <td></td> </tr> <tr> <td>4</td> <td>7</td> <td>7</td> </tr> <tr> <td>7</td> <td>14</td> <td>20</td> </tr> </table>	≤ 400 V	420 ... 450 V	500 V		385 ... 450 V		4	7	7	7	14	20
≤ 400 V	420 ... 450 V	500 V													
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4	7	7													
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IEC climatic category	To IEC 60068-1: for case diameter 35 ... 45 mm: $V_R \leq 400$ V DC: 40/085/56 (-40 °C/+85 °C/56 days damp heat test) $V_R > 400$ V DC: 25/085/56 (-25 °C/+85 °C/56 days damp heat test) for case diameter 50 mm: 25/085/56 (-25 °C/+85 °C/56 days damp heat test) The capacitors can be operated in the temperature range of -40 °C to +85 °C but the impedance at -40 °C should be taken into consideration.														

