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 · V_R				
Rated capacitance C_R Capacitance tolerance	330 ... 3300 µF ±20% ≙ M				
Dissipation factor tan δ (20 °C, 120 Hz)	for case diameter 35 ... 45 mm: $V_R \leq 400$ V DC: tan δ ≤ 0.15 $V_R > 400$ V DC: tan δ ≤ 0.20 for case diameter 50 mm: tan δ ≤ 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 · $I_{AC,R}$	 > 5000 h > 250000 h	Requirements: ΔC/C ≤ ±20% of initial value tan δ ≤ 2 times initial specified limit I_{leak} ≤ initial specified limit			
Voltage endurance test 85 °C; V_R	2000 h	Post test requirements: ΔC/C ≤ ±10% of initial value tan δ ≤ 1.3 times initial specified limit I_{leak} ≤ 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 × 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	≤ 400 V	420 ... 450 V 385 ... 450 V	500 V
		$Z_{-25\,°C} / Z_{20\,°C}$	4	7	7
		$Z_{-40\,°C} / Z_{20\,°C}$	7	14	20
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.				