

TYPE MXT, X2, EMI/RFI Suppression Capacitors, Harsh Environment

THB 1,000 Hr @ 85 °C, 85% RH, and Vr

The MXT series is constructed of Metallized Polypropylene Film encapsulated with self-extinguishing resin in plastic box of material meeting the UL 94V-0 requirements. The series is suitable for harsh environment conditions. Applications include “across the line” class X2 and EMI/RFI suppression.

Highlights

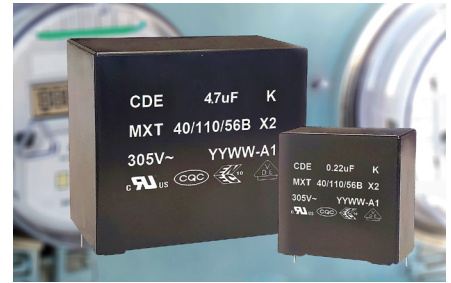
- THB 1,000 Hr @ 85°C, 85% RH, and Vr
- High stability of capacitance
- High operating temperature: 110 °C
- Self-healing property
- Flame-retardant plastic case and resin
- Suitable for harsh environmental conditions

Specifications

Capacitance Range	0.1 μF to 40 μF
Capacitance Tolerance	±10 % (±20% optional)
Rated Voltage	305 Vac, 630 Vdc
Operating Temperature Range	-40 °C to +110 °C (+85 °C to 110 °C, voltage derating factor of 1.35% per Deg. C)
Life Expectancy	100,000h at rated voltage and hot spot temperature ≤85 °C
Dissipation Factor	0.001 @ 1 kHz @ 20 °C
IEC Climatic Category	40/110/56 IEC60068-1
THB Rating	+85°C / 85% RH @ rated voltage for 1,000 hrs +24/-0 Capacitance Change Rate: ($\Delta C/C$): ≤±10% DF Change ($\Delta tg\delta$): ≤240*10 ⁻⁴ at 10 kHz (C ≤ 1μF) DF Change ($\Delta tg\delta$): ≤150*10 ⁻⁴ at 1 kHz (C > 1μF) IR: ≥ 50% of initial limit
Damp Heat, Steady State (Reference: IEC 60384-14; 2013/AMD1:2016)	+40°C / 93% RH @ rated voltage for 1,344 hrs +24/-0 Capacitance Change Rate: ($\Delta C/C$): ≤±5% DF Change ($\Delta tg\delta$): ≤80*10 ⁻⁴ at 10 kHz (C ≤ 1μF) DF Change ($\Delta tg\delta$): ≤50*10 ⁻⁴ at 1 kHz (C > 1μF) IR: ≥ 50% of initial limit

Agency Approvals **UL:** UL 60384-14, CSA-E60384-14
VDE: IEC 60384-14:2013, IEC 60384-14:2013/
 AMD1:2016
CQC: IEC 60384-14,GB/T6346.14-2015

<https://www.cde.com/new-product/mxt>



Typical Applications

Class X2 EMI/RFI Across-the-Line Filters for Harsh Environments, Utility Meters, UPS, EV Chargers, Inverters, SMPS, and Portable Power Systems.



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