CDE MXH, X2 Series, Across-the-Line EMI/RFI Suppression Capacitors for Harsh Environments



2,000-hour, 85°C /85% RH @ Vr AEC-Q200



CDE MXH, X2 Series, 85/85 THB-Rated Metalized Polypropylene Film Capacitors

MXH Series provides up to two-times greater life than other 85/85 THB-rated, board-mount capacitors for interference suppression.

- 2,000-hour load life based on 85 °C at 85% relative humidity with voltage applied.
- For across-the-line requirements
- Harsh Environment applications
- AEC-Q200



MXH, X2 Series Key Parameters

- Capacitance values range from 0.1 to 15 μF
- Voltage: 305 Vac @ 50/60Hz
- Meets IEC-60384
- UL Recognized
- AEC-Q200
- RoHS compliant
- Life expectancy: 100,000 hours
 @ ≤85 °C hot spot, at rated voltage





Effective EMI/RFI Filtering for Many Power Electronics Applications







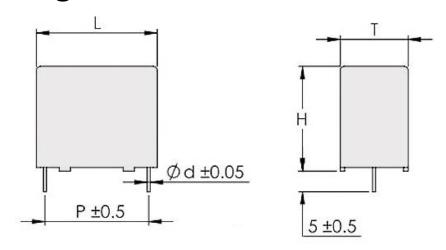


- Class X2, Across-the-Line filters for harsh environmental conditions
- Utility meters
- EV chargers, solar and other power inverters
- UPS, SMPS and portable power systems



MXH Series Construction and Lead Configurations

- Lead Spacings of 15mm to 37.5mm
- Two-pin lead configurations
- Plastic case and dry resin both meet UL94V-0
- 5mm lead length



Dimensions Shown in mm



CDE MXH Series Specifications Brief

1.0	
Capacitance Range	$0.1\mu\text{F}$ to $15\mu\text{F}$
Capacitance Tolerance	±10 % (±20% optional)
Rated Voltage	305 Vac, 630 Vdc
Operating Temperature Range	$-40~^{\circ}\text{C}$ to $+110~^{\circ}\text{C}$ (+85 $^{\circ}\text{C}$ to 110 $^{\circ}\text{C}$, 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 @ 1KHz @ 20 °C
IEC Climatic Category	40/110/56 IEC60068-1
THB Rating	+85°C / 85% RH @ rated voltage for 2,000hrs +24/-0 Capacitance Change Rate: (Δ C/C): \leq ±10% DF Change (Δ tg δ): \leq 240*10-4 at 10 KHz (C \leq 1 μ F) DF Change (Δ tg δ): \leq 150*10-4 at 1 KHz (C $>$ 1 μ F) IR: \geq 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: (Δ C/C): \leq ±5% DF Change (Δ tg δ): \leq 80*10-4 at 10 KHz (C \leq 1 μ F) DF Change (Δ tg δ): \leq 50*10-4 at 1 KHz (C $>$ 1 μ F) IR: \geq 50% of initial limit



CDE MXH, X2 Series, 85/85 THB Rated Film Capacitor Summary

- Two times greater life than other THB-rated EMI/RFI filter capacitors
- 2,000-hour load life based on 85 °C at 85% R.H @ rated voltage
- IEC-60384, AEC-Q200, RoHS
- Wide range of capacitance
- Used in across-the-line applications for EMI/RFI suppression
- Utility meters, line filters, UPS, and other power supply applications

