THB GRADE IIIB RFI FILM CAPACITORS

DESIGNED FOR HIGH ROBUSTNESS UNDER HIGH HUMIDITY

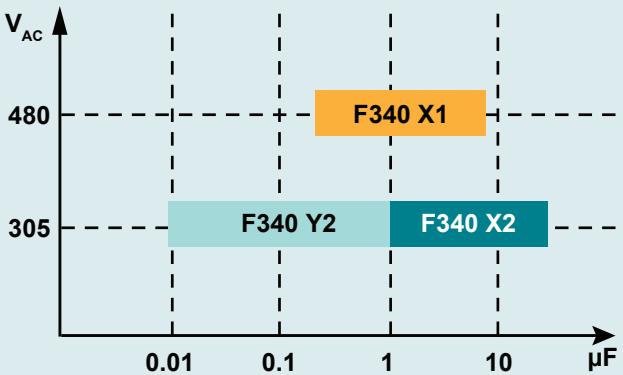
Radio frequency interference suppression capacitors certified in accordance with IEC 60384-14: 2013 / AMD1: 2016 grade III test condition B

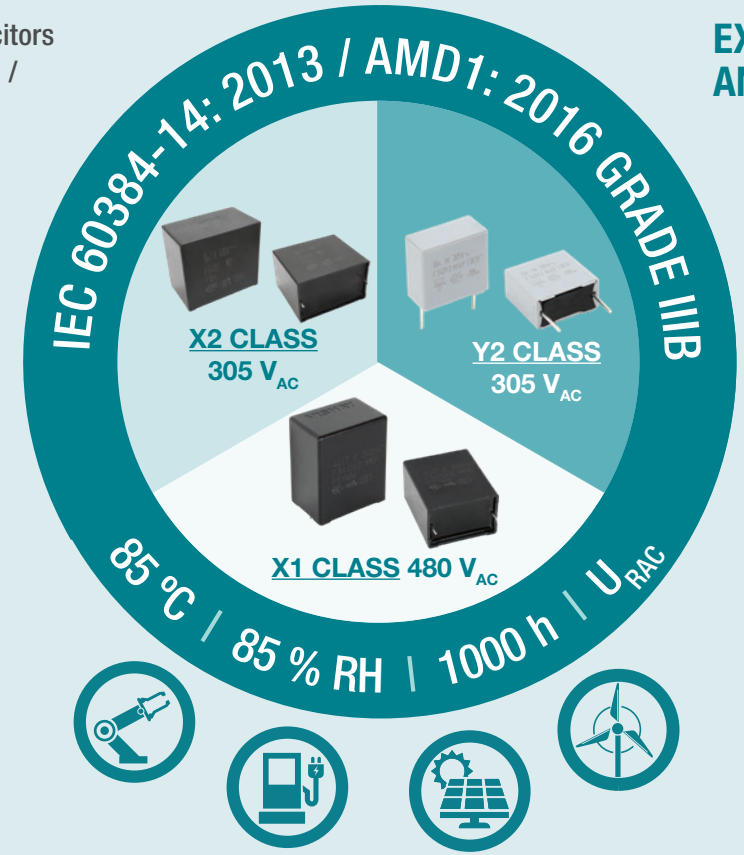
THB GRADE IIIB

- Grade (III): high robustness under high humidity
- Test condition B: damp heat, steady state; 85 °C / 85 % RH for 1000 h, rated voltage applied

CERTIFIED FOR SAFETY CLASSES AND FOR HUMIDITY ROBUSTNESS

F340 SERIES MAP

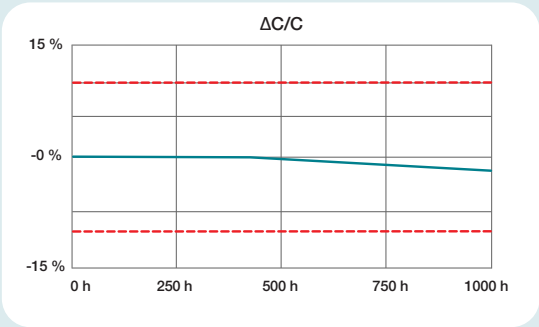


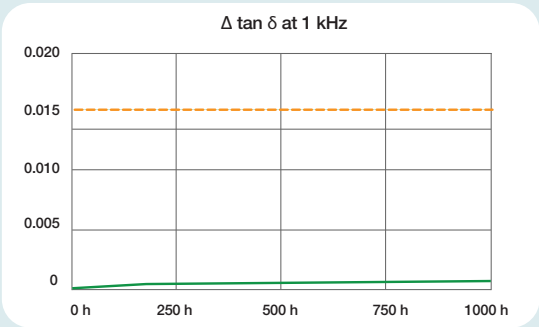


APPLICATIONS

- EMI filtering
- Renewable energy inverters
- EV / HEV chargers
- Industrial power electronics

EXTREME STABILITY ON CAPACITANCE AND DISSIPATION FACTOR (1)





Note

(1) Example performance of a F340 X2 12 µF under 85 °C / 85 % RH for 1000 h at 305 V_{AC}

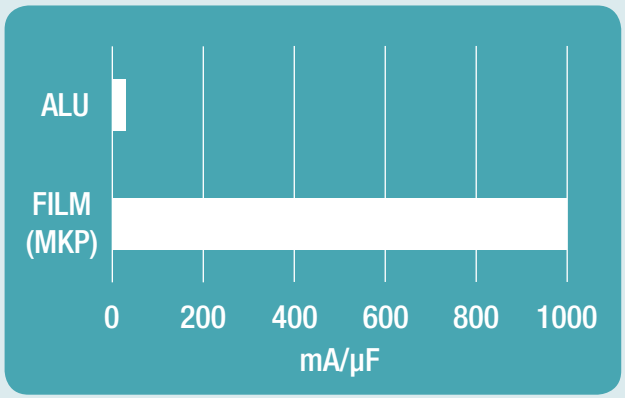
F340 X1	F340 X2	F340 Y2
• Max. permissible AC voltage up to 530 V • HiPot test up to 2400 V_{DC}; 1 min	• Rated capacitance up to 20 µF • HiPot test up to 2200 V_{DC}; 1 min	• AEC-Q200 qualified • HiPot test up to 3400 V_{DC}; 1 min

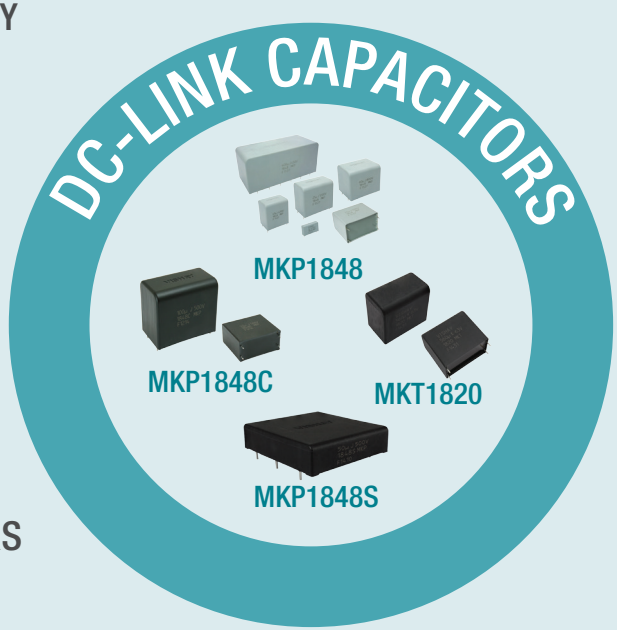
IG13968177-2002

DC-LINK FILM CAPACITORS IN A NUTSHELL

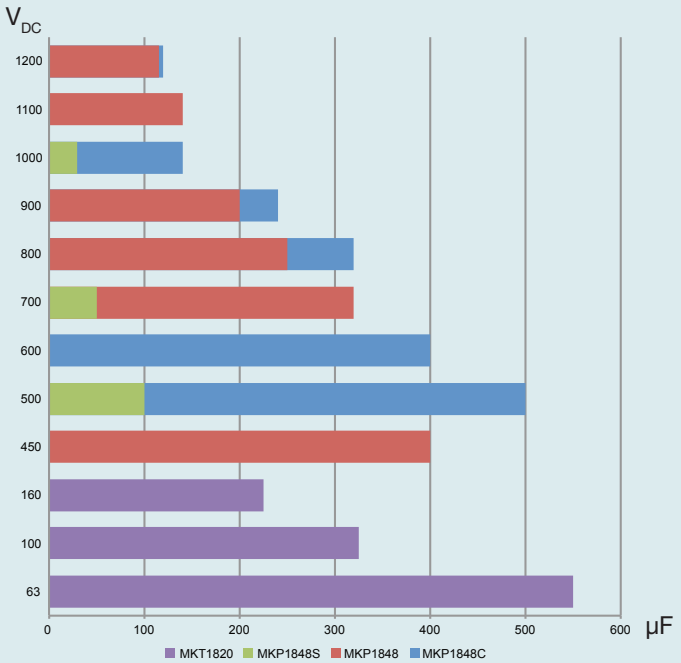
LOW ESR, HIGH RIPPLE CURRENT CAPABILITIES

FILM CAPACITOR RIPPLE CURRENT CAPABILITY VS. ALUMINUM ELECTROLITICS





DC-LINK FILM CAPACITORS VOLTAGE VS. CAPACITANCE RANGE



ADVANTAGES OF DC-LINK FILM CAPACITORS OVER ALUMINUM ELECTROLYTIC

- High voltage capability: no series connection; no balancing resistors
- Self healing technology
- Lifetime over 100 000 hours
- No dry out -> stable parameters until the end of life
- Stable electrical parameters across temperature range

APPLICATIONS

- On Board Chargers
- 48 V Board Net
- Forklifts
- Renewable Energy
- Welding Equipment
- Power Supplies
- Motor Drives

MKP1848	MKP1848C	MKP1848S	MKT1820
Automotive Grade DC-Link Film Capacitor (AEC-Q200 Compliant)	High Density DC-Link Film Capacitor Up to 1 µF/cm^3	Low Profile DC-Link with Building Heights of 12 mm, 15 mm, 18 mm, and 24 mm	Low Voltage and High Temperature (Up to 150 °C) DC-Link for 48 V Board Net

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