# **Type MPX Polypropylene Film Capacitors**

### Metallized Box Style, Vac Rated

## **Interference Suppression and Across-the-Line VAC Applications**



The Type MPX metallized, polypropylene class X2 film capacitors are ideal for across-the-line and interference suppression circuit applications. This series features the self-healing capabilities associated with metallized polypropylene, compact design, and flame retardant construction. Tape and reel packaging are available for ratings with a pitch of 10 mm to 32.5 mm.



Complies with the EU Directive 2002/95/EC requirement restricting the use of Lead (Pb), Mercury (Hg), Cadmium (Cd), Hexavalent chromium (Cr(VI)), PolyBrominated Biphenyls (PBB) and PolyBrominated Diphenyl Ethers (PBDE).

#### **Specifications** -

Voltage Range: 250 Vac, 60 Hz (UL and CSA)

275 Vac, 60 Hz (VDE and ENCE)

Capacitance Range: .0047– 2.2 µF

 $(.0047 - 1.0 \mu F \text{ on UL/CSA Spec.})$ 

Capacitance Tolerance: ±10% (K) standard

±5% (J)

Operating Temperature Range: -40 °C to +100 °C

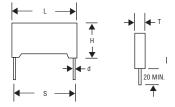
(85 °C on UL/CSA Spec.)

Dielectric Strength: 2100 Vdc (1 minute)
Dissipation Factor: .10% Max. (25°C, 1kHz)
Insulation Resistance: 10,000 mOhms x µF min.,

not to exceed 30,000 mOhms min.

#### **Agency Approvals:**

UL E171988 CSA LR701482 VDE 40017879 ENCE 40017879



#### Ratings -

Catalog	T ±.020 (0.5)	H ±.020 (0.5)	L ±.020 (0.5)	S ±.040 (1.0)	d	dV/dt
Part Number	Inches (mm)	Inches (mm)	Inches (mm)	Inches (mm)	Inches (mm)	V/µs
275 Vac						
MPXQD47K	.197 (5.0)	.433 (11.0)	.512 (13.0)	.394 (10.0)	.024 (.6)	100
MPXQD68K	.197 (5.0)	.433 (11.0)	.512 (13.0)	.394 (10.0)	.024 (.6)	100
MPXQS1K	.197 (5.0)	.433 (11.0)	.512 (13.0)	.394 (10.0)	.024 (.6)	100
MPXQS15K	.197 (5.0)	.433 (11.0)	.512 (13.0)	.394 (10.0)	.024 (.6)	100
MPXQS22K	.197 (5.0)	.433 (11.0)	.512 (13.0)	.394 (10.0)	.024 (.6)	100
MPXQS33K	.236 (6.0)	.472 (12.0)	.512 (13.0)	.394 (10.0)	.024 (.6)	100
MPXQS47K	.197 (5.0)	.433 (11.0)	.709 (18.0)	.591 (15.0)	.032 (.8)	45
MPXQS68K	.236 (6.0)	.472 (12.0)	.709 (18.0)	.591 (15.0)	.032 (.8)	45
MPXQP1K	.236 (6.0)	.531 (13.5)	.709 (18.0)	.591 (15.0)	.032 (.8)	45
MPXQP15K	.335 (8.5)	.571 (14.5)	.709 (18.0)	.591 (15.0)	.032 (.8)	45
MPXQP22K	.276 (7.0)	.650 (16.5)	1.043 (26.5)	.886 (22.5)	.032 (.8)	25
MPXQP33K	.335 (8.5)	.669 (17.0)	1.043 (26.5)	.886 (22.5)	.032 (.8)	25
MPXQP47K	.394 (10.0)	.748 (19.0)	1.043 (26.5)	.886 (22.5)	.032 (.8)	25
MPXQP56K	.433 (11.0)	.787 (20.0)	1.260 (32.0)	1.083 (27.5)	.032 (.8)	20
MPXQP68K	.433 (11.0)	.787 (20.0)	1.260 (32.0)	1.083 (27.5)	.032 (.8)	20
MPXQW1K	.551 (14.0)	.984 (25.0)	1.260 (32.0)	1.083 (27.5)	.032 (.8)	20
MPXQW1P2K	.590 (15.0)	1.181 (30.0)	1.260 (32.0)	1.083 (27.5)	.032 (.8)	20
MPXQW1P5K	.590 (15.0)	1.181 (30.0)	1.260 (32.0)	1.083 (27.5)	.032 (.8)	20
MPXQW1P8K	.748 (19.0)	1.42 (29.0)	1.457 (37.0)	1.280 (32.5)	.032 (.8)	16
MPXQW2P2K	.748 (19.0)	1.42 (29.0)	1.457 (37.0)	1.280 (32.5)	.032 (.8)	16
	Part Number  MPXQD47K MPXQD68K MPXQS1K MPXQS15K MPXQS22K MPXQS33K MPXQS47K MPXQS47K MPXQP15K MPXQP15K MPXQP15K MPXQP15K MPXQP22K MPXQP33K MPXQP47K	Part Number         Inches (mm)           MPXQD47K         .197 (5.0)           MPXQD68K         .197 (5.0)           MPXQS1K         .197 (5.0)           MPXQS15K         .197 (5.0)           MPXQS22K         .197 (5.0)           MPXQS33K         .236 (6.0)           MPXQS47K         .197 (5.0)           MPXQS68K         .236 (6.0)           MPXQP1K         .236 (6.0)           MPXQP15K         .335 (8.5)           MPXQP22K         .276 (7.0)           MPXQP33K         .335 (8.5)           MPXQP47K         .394 (10.0)           MPXQP56K         .433 (11.0)           MPXQP68K         .433 (11.0)           MPXQW1P2K         .590 (15.0)           MPXQW1P5K         .590 (15.0)           MPXQW1P8K         .748 (19.0)	Part Number         Inches (mm)         Inches (mm)           MPXQD47K         .197 (5.0)         .433 (11.0)           MPXQD68K         .197 (5.0)         .433 (11.0)           MPXQS1K         .197 (5.0)         .433 (11.0)           MPXQS15K         .197 (5.0)         .433 (11.0)           MPXQS22K         .197 (5.0)         .433 (11.0)           MPXQS33K         .236 (6.0)         .472 (12.0)           MPXQS47K         .197 (5.0)         .433 (11.0)           MPXQS68K         .236 (6.0)         .472 (12.0)           MPXQP1K         .236 (6.0)         .531 (13.5)           MPXQP15K         .335 (8.5)         .571 (14.5)           MPXQP22K         .276 (7.0)         .650 (16.5)           MPXQP33K         .335 (8.5)         .669 (17.0)           MPXQP47K         .394 (10.0)         .748 (19.0)           MPXQP56K         .433 (11.0)         .787 (20.0)           MPXQW1K         .551 (14.0)         .984 (25.0)           MPXQW1P2K         .590 (15.0)         1.181 (30.0)           MPXQW1P8K         .590 (15.0)         1.181 (30.0)           MPXQW1P8K         .748 (19.0)         1.42 (29.0)	Part Number         Inches (mm)         Inches (mm)         Inches (mm)           MPXQD47K         .197 (5.0)         .433 (11.0)         .512 (13.0)           MPXQD68K         .197 (5.0)         .433 (11.0)         .512 (13.0)           MPXQS1K         .197 (5.0)         .433 (11.0)         .512 (13.0)           MPXQS15K         .197 (5.0)         .433 (11.0)         .512 (13.0)           MPXQS22K         .197 (5.0)         .433 (11.0)         .512 (13.0)           MPXQS33K         .236 (6.0)         .472 (12.0)         .512 (13.0)           MPXQS47K         .197 (5.0)         .433 (11.0)         .709 (18.0)           MPXQS47K         .197 (5.0)         .433 (11.0)         .709 (18.0)           MPXQS68K         .236 (6.0)         .472 (12.0)         .709 (18.0)           MPXQP1K         .236 (6.0)         .531 (13.5)         .709 (18.0)           MPXQP1K         .236 (6.0)         .531 (13.5)         .709 (18.0)           MPXQP1K         .335 (8.5)         .571 (14.5)         .709 (18.0)           MPXQP22K         .276 (7.0)         .650 (16.5)         1.043 (26.5)           MPXQP33K         .335 (8.5)         .669 (17.0)         1.043 (26.5)           MPXQP47K         .394 (10.0)	Part Number         Inches (mm)         Inches (mm)         Inches (mm)         Inches (mm)           275 Vac           MPXQD47K         .197 (5.0)         .433 (11.0)         .512 (13.0)         .394 (10.0)           MPXQD68K         .197 (5.0)         .433 (11.0)         .512 (13.0)         .394 (10.0)           MPXQS1K         .197 (5.0)         .433 (11.0)         .512 (13.0)         .394 (10.0)           MPXQS15K         .197 (5.0)         .433 (11.0)         .512 (13.0)         .394 (10.0)           MPXQS22K         .197 (5.0)         .433 (11.0)         .512 (13.0)         .394 (10.0)           MPXQS33K         .236 (6.0)         .472 (12.0)         .512 (13.0)         .394 (10.0)           MPXQS47K         .197 (5.0)         .433 (11.0)         .709 (18.0)         .591 (15.0)           MPXQS47K         .197 (5.0)         .433 (11.0)         .709 (18.0)         .591 (15.0)           MPXQPS68K         .236 (6.0)         .472 (12.0)         .709 (18.0)         .591 (15.0)           MPXQP1K         .236 (6.0)         .531 (13.5)         .709 (18.0)         .591 (15.0)           MPXQP1K         .335 (8.5)         .571 (14.5)         .709 (18.0)         .591 (15.0)           MPXQP33K         .335 (8.5)	Part Number         Inches (mm)         Inches (mm)