

MPX METALLIZED POLYPROPYLENE



CLASS X2 – for INTERFERENCE SUPPRESSION and ACROSS-THE-LINE

DESCRIPTION:

MPX are non-inductively wound with a metallized polypropylene film dielectric / electrode with radial leads encapsulated in flame-retardant (UL94V-0) plastic case sealed in epoxy resin.

APPLICATIONS:

Ideal for use in line bypass, antenna coupling, across-the-line and spark killer circuits.
Available for EMI filter.
Switching power supply applications.
Interference suppression circuit applications

FEATURES:

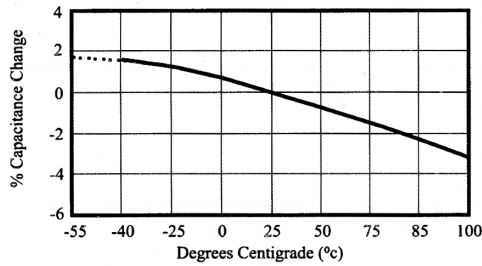
Provides interference suppression with UL, VDE, CSA and ENEC safety approvals.
High dV/dt capabilities
Self-healing capabilities.
Tape and reel packaging are available for ratings with a pitch of 10mm and 15mm.

SPECIFICATIONS:

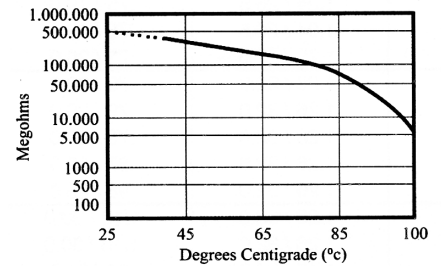
Voltage Rating: 275/250 VAC
Capacitance Tolerance: $\pm 10\%$ (K) std. $\pm 5\%$ (J)
Operating Temperature: -40°C to 100°C
(85°C on UL/CSA Spec.)
Dissipation Factor: 0.08% max at 1 KHz 20°C
0.3% max at 10KHz 20°C
Capacitance Range: .0047-2.2 μF
Working Voltage: 275/250 VAC 50/60Hz
Dielectric Strength: 2100 VDC for 1 sec.
Insulation Resistance: I.R. $\geq 30,000\text{M}\Omega$ ($C \leq 0.33\mu\text{f}$)
I.R. $\geq 10,000\text{M}\Omega$ ($C > 0.33\mu\text{f}$)

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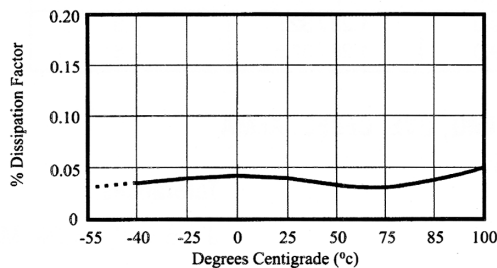
Pulse Capacity					
Body Length (L)mm					
Rated Volts 275/270	13.0	18.0	26.5	32.0	37.0
	dV/dt volts per microsecond max				
	100	45	25	20	16



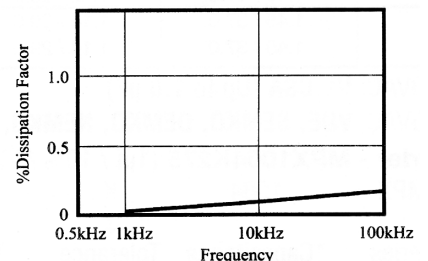
Capacitance Change vs Temperature



Insulation Resistance vs. Temperature



Dissipation Factor vs. Temperature



Dissipation Factor vs Frequency

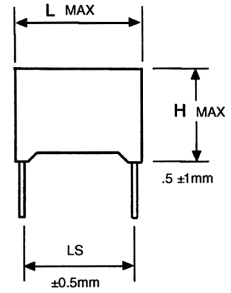


A Division of Pelco Component Technologies

2747 Route 20 East, Cazenovia, NY 13035
phone 315-655-2530 ■ fax 315-655-3862 ■ www.stkelectronics.com

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Cap. µf	L in/mm	H in/mm	T in/mm	LS in/mm	Ø
250VAC / 275VAC					
.0047	.53/13.0	.43/11.0	.20/5.0	.39/10.0	0.6
.0056	.53/13.0	.43/11.0	.20/5.0	.39/10.0	0.6
.0068	.53/13.0	.43/11.0	.20/5.0	.39/10.0	0.6
.0082	.53/13.0	.43/11.0	.20/5.0	.39/10.0	0.6
.01	.53/13.0	.43/11.0	.20/5.0	.39/10.0	0.6
.012	.53/13.0	.43/11.0	.20/5.0	.39/10.0	0.6
.015	.53/13.0	.43/11.0	.20/5.0	.39/10.0	0.6
.018	.53/13.0	.43/11.0	.20/5.0	.39/10.0	0.6
.022	.53/13.0	.43/11.0	.20/5.0	.39/10.0	0.6
.027	.53/13.0	.47/12.0	.24/6.0	.39/10.0	0.6
.033	.53/13.0	.47/12.0	.24/6.0	.39/10.0	0.6
.033	.71/18.0	.43/11.0	.20/5.0	.60/15.0	0.8
.039	.71/18.0	.43/11.0	.20 / 5.0	.60/15.0	0.8
.047	.71/18.0	.43/11.0	.20/5.0	.60/15.0	0.8
.056	.71/18.0	.47/12.0	.24/6.0	.60/15.0	0.8
.068	.71/18.0	.47/12.0	.24/6.0	.60/15.0	0.8
.082	.71/18.0	.53/13.5	.24/6.0	.60/15.0	0.8
.1	.71/18.0	.53/13.5	.24/6.0	.60/15.0	0.8
.12	.71/18.0	.53/13.5	.30/7.5	.60/15.0	0.8
.15	.71/18.0	.57/14.5	.33/8.5	.60/15.0	0.8
.18	.71/18.0	.63/16.0	.39/10.0	.60/15.0	0.8
.22	.71/18.0	.63/16.0	.39/10.0	.60/15.0	0.8
.15	1.04/26.5	.65/16.5	.30/7.5	.90/22.5	0.8
.18	1.04/26.5	.65/16.5	.30/7.5	.90/22.5	0.8
.22	1.04/26.5	.65/16.5	.30/7.5	.90/22.5	0.8
.27	1.04/26.5	.67/17.0	.33/8.5	.90/22.5	0.8
.33	1.04/26.5	.67/17.0	.33/8.5	.90/22.5	0.8
.39	1.04/26.5	.75/19.0	.39/10.0	.90/22.5	0.8
.47	1.04/26.5	.75/19.0	.39/10.0	.90/22.5	0.8
.47	1.26/32.0	.79/20.0	.42/11.0	1.1/27.5	0.8
.56	1.26/32.0	.79 / 20.0	.42/11.0	1.1/27.5	0.8
.60	1.26/32.0	.79/20.0	.42/11.0	1.1/27.5	0.8
.68	1.26/32.0	.79/20.0	.42/11.0	1.1/27.5	0.8
.82	1.26/32.0	.87/22.0	.51/13.0	1.1 / 27.5	0.8
1.0	1.26/32.0	.98/25.0	.55/14.0	1.1 / 27.5	0.8
1.2	1.26/32.0	1.18/30.0	.59/15.0	1.1/27.5	0.8
1.5	1.26/32.0	1.18/30.0	.59/15.0	1.1 / 27.5	0.8
1.0	1.45/37.0	.94/24.0	.53/13.5	1.28/32.5	0.8
1.2	1.45/37.0	.94/24.0	.53/13.5	1.28/32.5	0.8
1.5	1.45/37.0	1.02/26.0	.59/15.0	1.28/32.5	0.8
1.8	1.45/37.0	1.14/29.0	.75/19.0	1.28 / 32.5	0.8
2.2	1.45/37.0	1.14/29.0	.75/19.0	1.28/32.5	0.8

Approvals 250VAC: UL, CSA (up to 1.0µf), 275VAC: VDE, ENEC

STK
ELECTRONICS
Film Capacitors

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