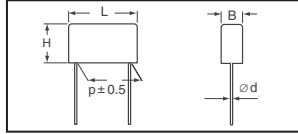


# KEMET Metallized Paper Film Capacitors – PME271Y Series

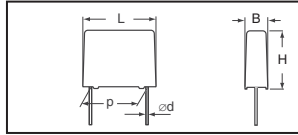
**Typical Applications:** These capacitors are intended for use as interference suppressors in Y2 (line-to-earth) applications.  
**Construction:** Multi-layer metallized paper. Encapsulated and impregnated in self-extinguishing material meeting the requirements of UL 94V-0.  
**Features:** • Temperature Range: -40°C - 100°C • ENEC, UL, CSA approved



WV (AC)	Cap. (µF)	Tol. (%)	Dimensions - mm						Digi-Key Part No.	Pricing		Kemet Part No.
			B	H	L	p	Ød	1		10		
250	.0010	±20	3.9	7.5	13.5	10.2	0.6	399-5409-ND	.88	6.90	PME271Y410MR30	
	.0022	±20	3.9	7.5	13.5	10.2	0.6	399-5410-ND	.89	7.06	PME271Y422MR30	
	.0047	±20	5.1	10.5	13.5	10.2	0.6	399-5411-ND	.93	7.34	PME271Y447MR30	
	.010	±20	5.2	10.5	18.5	15.2	0.8	399-5412-ND	.95	7.53	PME271Y510MR30	
	.022	±20	7.3	13.0	18.5	15.2	0.8	399-5413-ND	1.12	8.84	PME271Y522MR30	
	.047	±20	9.0	15.0	24.0	20.3	0.8	399-5414-ND	1.55	12.25	PME271Y547MR30	

# Metallized Polypropylene Film Capacitors – PHE840 and PHE850 Series

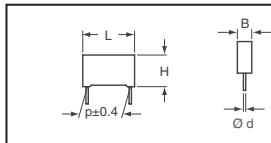
**Typical Applications:** For worldwide use as electromagnetic interference suppressor in all X2 and across-the-line applications and Y2 (line-to-earth) applications.  
**Construction:** Metallized polypropylene film encapsulated with self-extinguishing epoxy resin in a box of material meeting the requirements of UL 94V-0.  
**Features:** • Temp. Range: PHE840: -55°C - 105°C; PHE850: -55°C - 110°C • ENEC, UL, cUL approved



WV (AC)	Cap. (µF)	Tol. (%)	Dimensions - mm						Digi-Key Part No.	Pricing		Kemet Part No.
			B	H	L	p	Ød	1		10		
<b>PHE840 Series</b>												
275/280	.10	±20	5.5	12.5	18.0	15.0	0.8	399-5426-ND	.59	4.35	PHE840M6100MB05R17	
	.22	±20	7.5	14.5	18.0	15.0	0.8	399-5427-ND	.67	4.92	PHE840M6220MB06R17	
	.47	±20	11.0	19.0	18.0	15.0	0.8	399-5428-ND	.78	6.22	PHE840M6470MB16R17	
	.47	±20	8.0	16.0	26.0	22.5	0.8	399-5429-ND	.88	6.96	PHE840MY6470MD14R06L2	
	1.0	±20	11.0	21.5	26.0	22.5	0.8	399-5430-ND	1.44	11.33	PHE840MY7100MD16R06L2	
	1.0	±20	10.5	20.5	31.5	27.5	0.8	399-5431-ND	2.34	18.93	PHE840MZ7100MF11R06L2	
2.2	±20	17.5	28.0	31.5	27.5	0.8	399-5432-ND	2.81	22.66	PHE840MZ7200MF14R06L2		
2.2	±20	13.0	24.0	41.0	37.5	1.0	399-5433-ND	3.74	30.19	PHE840MR7220M0R05R06L2		
<b>PHE850 Series</b>												
300	.0010	±20	4.0	9.0	13.0	10.0	0.6	399-5415-ND	.32	2.26	PHE850EA4100MA01R17	
	.0022	±20	4.0	9.0	13.0	10.0	0.6	399-5416-ND	.34	2.41	PHE850EA4200MA01R17	
	.0033	±20	4.5	10.5	13.0	10.0	0.6	399-5418-ND	.38	2.68	PHE850EA4300MA02R17	
	.0047	±20	5.0	11.0	13.0	10.0	0.6	399-5417-ND	.41	2.92	PHE850EA4470MA03R17	
	.010	±20	5.5	10.5	18.0	15.0	0.6	399-5419-ND	.52	3.70	PHE850EB5100MB04R17	
	.022	±20	7.5	14.5	18.0	15.0	0.8	399-5420-ND	.61	4.52	PHE850EB5220MB06R17	
	.047	±20	9.5	17.5	18.0	15.0	0.8	399-5421-ND	.80	6.06	PHE850EB5470MB14R17	
	.10	±20	10.5	19.0	26.0	22.5	0.8	399-5422-ND	.97	7.72	PHE850ED6100MD18R06L2	
	.22	±20	13.5	23.0	26.0	22.5	0.8	399-5423-ND	1.47	11.61	PHE850ED6220MD20R06L2	
	.47	±20	17.5	28.0	31.5	27.5	0.8	399-5424-ND	2.44	19.74	PHE850EF6470MF14R06L2	
	1.0	±20	19.0	36.0	41.0	37.5	1.0	399-5425-ND	4.58	41.20	PHE850ER7100MR03R06L2	

# Metallized Polypropylene Film Capacitors – R41/R46 MKP Series

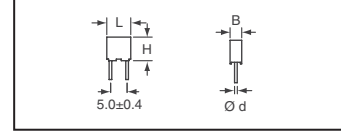
**Typical Applications:** Interference suppression and across-the-line applications. Suitable for use in situations where failure of the capacitor could lead to danger of electric shock.  
**Protection:** Plastic case, thermosetting resin-filled. Box material is solvent resistant and flame retardant according to UL 94V-0.  
**Features:** • Operating Temperature Range: -40°C - 110°C • Climatic Category: 40/110/56 IEC 60068-1 • ENEC, CSA, UL, GB/T approved



WV AC/DC	Cap. (µF)	Tol. (%)	Dimensions - mm						Digi-Key Part No.	Pricing		Kemet Part No.
			B	H	L	p	Ød	1		10		
<b>Y2/X1 Class</b>												
300/1000	.0010	±20	4.0	9.0	13.0	10.0	0.6	399-5470-ND	.36	2.52	R413F11000000M	
	.0022	±20	4.0	9.0	13.0	10.0	0.6	399-5471-ND	.36	2.54	R413F12200000M	
	.0033	±20	4.0	9.0	13.0	10.0	0.6	399-5472-ND	.40	2.83	R413F13300000M	
	.0047	±20	5.0	11.0	13.0	10.0	0.6	399-5473-ND	.43	3.06	R413F147000M1M	
	.010	±20	5.0	11.0	18.0	15.0	0.6	399-5474-ND	.40	2.78	R413I21000000M	
	.022	±20	6.0	12.0	18.0	15.0	0.6	399-5475-ND	.59	4.31	R413I22000000M	
<b>X2 Class</b>												
275/560	.010	±10	5.0	11.0	18.0	15.0	0.6	399-5457-ND	.41	2.87	R46K121005001K	
	.022	±10	5.0	11.0	18.0	15.0	0.6	399-5458-ND	.46	3.27	R46K122200001K1	
	.047	±10	5.0	11.0	18.0	15.0	0.6	399-5459-ND	.38	2.61	R46K124700001K1	
	.10	±10	5.0	11.0	18.0	15.0	0.6	399-5460-ND	.39	2.69	R46K1310000M1K	
	.22	±20	7.5	13.5	18.0	15.0	0.6	399-5461-ND	.48	3.40	R46K1322000M2M	
	.33	±20	9.0	12.5	18.0	15.0	0.6	399-5462-ND	.52	3.82	R46K1333000M1M	
	.47	±20	10.0	16.0	18.0	15.0	0.8	399-5463-ND	.59	4.35	R46K1347000M0M	
	.22	±20	6.0	15.0	26.5	22.5	0.8	399-5464-ND	.55	3.88	R46KN32200M1M	
	.47	±20	7.0	16.0	26.5	22.5	0.8	399-5465-ND	.76	5.77	R46KN34700M0M	
	1.0	±20	10.0	18.5	26.5	22.5	0.8	399-5466-ND	.75	5.71	R46KN410000M2M	
	1.0	±10	11.0	20.0	32.0	27.5	0.8	399-5467-ND	1.21	9.58	R46KR410000M1K	
	1.5	±10	13.0	22.0	32.0	27.5	0.8	399-5468-ND	1.21	9.49	R46KR415000M1K	
	2.2	±10	13.0	25.0	32.0	27.5	0.8	399-5469-ND	1.50	11.89	R46KR42200M2K	

# Metallized Polyester Film Capacitors – R82 MKT Series

**Typical Applications:** By-passing, blocking, coupling, decoupling, timing, oscillator circuits  
**Specifications:** • Dielectric: Polyester film (polyethylene terephthalate) • Protection: Plastic case, thermosetting resin-filled. Box material is solvent resistant and flame retardant. • Climatic Category: 55/105/56 IEC 60068-1 • Operating Temperature Range: -55°C - 105°C • Capacitance Tolerance: ±5% • Lead Spacing: 5.0mm

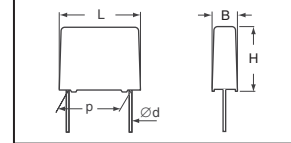


WV AC/DC	Cap. (µF)	Tol. (%)	Dimensions - mm					Digi-Key Part No.	Cut Tape Pricing		Tape and Box†		Kemet Part No.
			B	H	L	p	Ød		10	100	Qty.	Pricing	
40/63	.10	±20	2.5	6.5	7.2	0.5	399-5444-1-ND	2.64	13.82	3,500	48.08/M	R82DC3100D050J	
	.22	±20	2.5	6.5	7.2	0.5	399-5445-1-ND	3.11	16.25	3,500	56.51/M	R82DC3220D060J	
	.47	±20	3.5	7.5	7.2	0.5	399-5446-1-ND	3.44	20.74	2,500	74.65/M	R82DC3470D060J	
	1.0	±20	5.0	10.0	7.2	0.5	399-5447-1-ND	4.33	27.13	1,700	109.83/M	R82DC4100D060J	
	.0010	±20	2.5	6.5	7.2	0.5	399-5448-1-ND	2.63	13.73	3,500	47.75/M	R82EC1100D050J	
63/100	.0047	±20	2.5	6.5	7.2	0.5	399-5449-1-ND	2.68	14.01	3,500	48.74/M	R82EC1470D050J	
	.010	±20	2.5	6.5	7.2	0.5	399-5450-1-ND	2.35	12.26	3,500	42.63/M	R82EC2100D050J	
	.022	±20	2.5	6.5	7.2	0.5	399-5451-1-ND	2.79	14.58	3,500	50.73/M	R82EC2220D050J	
	.047	±20	2.5	6.5	7.2	0.5	399-5452-1-ND	2.81	14.68	3,500	51.06/M	R82EC2470D060J	
	.10	±20	2.5	6.5	7.2	0.5	399-5453-1-ND	2.65	13.87	3,500	48.25/M	R82EC3100D070J	
	.47	±20	4.5	9.5	7.2	0.5	399-5454-1-ND	4.73	28.50	1,900	108.30/M	R82EC3470D070J	
140/250	1.0	±20	6.0	11.0	7.2	0.5	399-5455-1-ND	6.40	40.14	1,400	162.49/M	R82EC4100D070J	
	1.0	±20	4.5	9.5	7.2	0.5	399-5456-1-ND	4.01	24.12	1,900	91.67/M	R82IC3100D060J	

† For Tape and Box part number, change 1-ND to 3-ND.

# Metallized Polyester Film Capacitors – MMK Series

**Typical Applications:** Bypassing, signal coupling. General purpose for highest reliability.  
**Construction:** Metallized polyester film capacitor. Radial leads of tinned wire are electrically welded to the contact metal layer on the ends of the capacitor winding. Encapsulation in self-extinguishing material meeting the requirements of UL 94V-0.  
**Features:** • Climatic Category: 55/100/56 IEC 60068-1 • Temperature Rating: 85°C • Lead Spacing: 5.0mm

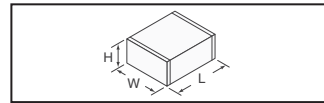


WV AC/DC	Cap. (µF)	Tol. (%)	Dimensions - mm					Digi-Key Part No.	Pricing		Kemet Part No.
			B	H	L	p	Ød		1	10	
40/63	.0010	±20	2.5	6.5	7.2	5.0	0.5	399-5434-ND	.22	1.54	MMK5102K63J01L4BULK
	.0022	±20	2.5	6.5	7.2	5.0	0.5	399-5435-ND	.36	2.41	MMK5222K63J01L4BULK
	.0047	±20	2.5	6.5	7.2	5.0	0.5	399-5436-ND	.29	1.99	MMK5472K63J01L4BULK
	.010	±20	2.5	6.5	7.2	5.0	0.5	399-5437-ND	.36	2.41	MMK5103K63J01L4BULK
	.022	±20	2.5	6.5	7.2	5.0	0.5	399-5438-ND	.29	2.01	MMK5223K63J01L4BULK
	.047	±20	2.5	6.5	7.2	5.0	0.5	399-5439-ND	.31	2.17	MMK5473K63J01L4BULK
	.10	±20	2.5	6.5	7.2	5.0	0.5	399-5440-ND	.35	2.39	MMK5104K63J01L4BULK
	.22	±20	2.5	6.5	7.2	5.0	0.5	399-5441-ND	.34	2.39	MMK5224K63J01L4BULK
	.47	±20	3.5	8.0	7.2	5.0	0.5	399-5442-ND	.57	4.19	MMK5474K63J02L4BULK
	1.0	±20	5.0	10.0	7.2	5.0	0.5	399-5443-ND	.78	5.99	MMK5105K63J04L4BULK

# Metallized Polyester Film Capacitors – LDE Series

**Construction:** • Metallized polyethylene naphthalate, non-encapsulated construction, stacked technology  
**Features:** • Excellent stability vs. temperature, frequency and time • Self-healing • High reliability • Low ESR • Typical failure mode at the end of life, open circuit • No piezoelectric effect • No cracking • No VCC

Size Code	12.10	18.12	22.20
L (mm)	3.3 ±0.3/-0.1	4.7 ±0.3/-0.2	6.0 ±0.3
W (mm)	2.5 ±0.3	3.3 ±0.3	5.0 ±0.4



WV DC	Cap. (µF)	Tol. (%)	Size Code	Dim. H (mm)	Digi-Key Part No.	Cut Tape Pricing		Tape and Reel†		Kemet Part No.
						10	100			