# Capacitor Selection Guide Safety-Rated EMI Filtering







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## Safety/EMI



## X1 Class

**P410 Series, Metallized Impregnated Paper 300 VAC Capacitance Range:** 0.022 to 0.1 μF • **Temperature Range:** -40°C to +85°C



Р	410	Q	М	223	М	300	Α	H101
Capacitor Class	Series	Lead Spacing (mm)	Size Code	Capacitance Code (pF)	Capacitance Tolerance	Rated Voltage (VAC)	Packaging	Resistance (Ω)
P= Metallized Paper	RC Snubber	Q = 15.2 C = 20.3 E = 25.4	See Dimension Table	First two digits represent significant figures. Third digit specifies number of zeros.	M = ±20%	300 = 300	See Ordering Options Table	H plus first two digits represent significant figures. Third digit specifies number of zeros.

Coso Sizo	Voltage (VDC/VAC)		
Case Size	1,000/300		
15.2 - 18.5 x 13 x 7.3	22 nF		
15.2 - 18.5 x 14.3 x 8.5	33 nF		
20.3 – 24 x 15 x 9	47 nF		
20.3 – 24 x 16.5 x 11.3	68 nF		
25.4 - 30.5 x 16.1 x 10.6	100 nF		



# PME271E Series, Metallized Impregnated Paper, 300 VAC Capacitance Range: 0.01 to 0.22 μF • Temperature Range: -40°C to +110°C

### Legacy Part Number System



PME271	E	(D)	510(0)	Μ	R30
Series	Rated Voltage (VAC)	Lead Spacing (mm)	Capacitance Code (pF)	Capacitance Tolerance	Packaging
X1, Metallized Paper	E = 300	Blank = Standard D = 22.5	The last three digits represent significant figures. The first digit specifies the total number of digits.	M = ±20% (for C ≤ 0.1 μF) K = ±10% (for C > 0.1 μF)	See Ordering Options Table

### **New KEMET Part Number System**

Р	277	Q	E	103	Μ	300	Α
Capacitor Class	Series	Lead Spacing (mm)	Size Code	Capacitance Code (pF)	Capacitance Tolerance	Rated Voltage (VAC)	Packaging
P = Paper	X1, Metallized Paper	Q = 15.2 C = 20.3 S = 22.5 E = 25.4	See Dimension Table	First two digits represent significant figures. Third digit specifies number of zeros.	M = ±20% (for C ≤ 0.1 μF) K = ±10% (for C > 0.1 μF)	300 = 300	See Ordering Options Table

Case Size	Voltage (VDC/VAC)
	630/300
15.2 - 18.5 x 10.5 x 5.2	10 nF – 15 nF
15.2 - 18.5 x 14.3 x 8.5	47 nF
15.2 – 19 x 13 x 7.3	22 nF – 33 nF
20.3 – 24 x 14 x 7.6	68 nF
20.3 – 24 x 16.5 x 11.3	100 nF
22.5 – 27 x 17 x 8	68 nF – 100 nF
22.5 – 27 x 19 x 10	150 nF
22.5 – 27 x 22 x 12	220 nF
25.4 - 30.5 x 16.1 x 10.6	150 nF
25.4 - 30.5 x 19 x 12.1	220 nF



# F871 – F873 Series, Halogen Free, Metallized Polypropylene, 330/480/760 VAC Capacitance Range: 0.001 to 8.2 µF • Temperature Range: -40°C to +110°C



F	871	В	K	104	М	330	С
Capacitor Class	Series	Lead Spacing (mm)	Size Code	Capacitance Code (pF)	Capacitance Tolerance	Voltage (VAC)	Packaging
F = Film	X1, Metallized Polypropylene	A = 10 B = 15 D = 22.5 F = 27.5 R = 37.5	See Dimension Table	First two digits represent significant figures. Third digit specifies number of zeros.	K = ±10% M = ±20%	330	See Ordering Options Table

### F871

Coop Size	Voltage (VDC/VAC)		Coop Size	Voltage (VDC/VAC)	
Case Size	800/330		Case Size	800/330	
10 - 13 x 11 x 5	15 nF – 22 nF		22.5 – 26 x 20 x 11	470 nF – 560 nF	
10 - 13 x 12 x 6	22 nF - 33 nF	1	22.5 – 26 x 22 x 13	680 nF - 820 nF	
10 - 13 x 17 x 7	33 nF - 47 nF		22.5 – 26 x 24.5 x 15.5	820 nF – 1 μF	
10 - 13 x 7.5 x 9.5	1.8 nF – 27 nF		27.5 – 31.5 x 12.5 x 21	250 nF - 680 nF	
10 - 13 x 8 x 4	1 nF - 10 nF		27.5 – 31.5 x 16 x 27.5	1.2 μF	
10 – 13 x 9 x 4	10 nF – 12 nF		27.5 – 31.5 x 17 x 9	220 nF - 390 nF	
15 – 18 x 10 x 4	2.7 nF - 33 nF		27.5 – 31.5 x 19 x 31	1.5 μF – 1.8 μF	
15 – 18 x 11 x 5	33 nF - 47 nF		27.5 – 31.5 x 20 x 11	150 nF - 680 nF	
15 – 18 x 12 x 13	82 nF – 180 nF		27.5 – 31.5 x 25 x 13	820 nF – 1 μF	
15 – 18 x 12 x 6	68 nF		27.5 – 31.5 x 28 x 14	1.2 μF	
15 - 18 x 12.5 x 5.5	47 nF - 68 nF		27.5 – 31.5 x 28 x 17.5	1.5 μF – 1.8 μF	
15 – 18 x 12.5 x 9	82 nF – 120 nF		27.5 – 31.5 x 29 x 19	1.8 μF	
15 – 18 x 13.5 x 7.5	82 nF – 120 nF		27.5 – 31.5 x 37 x 22	2.2 µF - 3.3 µF	
15 - 18 x 14.5 x 8.5	120 nF – 150 nF		27.5 – 31.5 x 40 x 17	1.8 μF – 2.2 μF	
15 - 18 x 16 x 10	180 nF		37.5 – 41 x 15 x 24	560 nF - 1.5 μF	
15 – 18 x 17.5 x 6	82 nF – 120 nF		37.5 – 41 x 19 x 24	1.8 μF – 2.7 μF	
15 - 18 x 18.5 x 7.5	150 nF – 180 nF		37.5 – 41 x 22 x 11	330 nF – 1 μF	
15 – 18 x 19 x 11	220 nF – 270 nF		37.5 – 41 x 24 x 13	1.2 μF – 1.5 μF	
15 – 18 x 20 x 12	250 nF – 270 nF		37.5 – 41 x 26 x 15	1.5 μF – 1.8 μF	
22.5 – 26 x 14.5 x 6	39 nF – 150 nF		37.5 – 41 x 28.5 x 16	2.2 µF	
22.5 – 26 x 16 x 7	150 nF – 220 nF		37.5 – 41 x 32 x 19	2.5 µF - 3.3 µF	
22.5 – 26 x 16 x 8	250 nF - 270 nF		37.5 – 41 x 38 x 21	3.3 μF – 4.7 μF	
22.5 – 26 x 17 x 8.5	330 nF		37.5 – 41 x 44 x 24	4.7 μF – 6.8 μF	
22.5 – 26 x 18.5 x 10	390 nF – 470 nF		37.5 – 41 x 45 x 30	6.8 µF – 8.2 µF	
22.5 - 26 x 18.5 x 9	330 nF – 390 nF				



### F871 – F873 Series, Halogen Free, Metallized Polypropylene, 330/480/760 VAC (cont.)

Capacitance Range: 0.001 to 8.2 µF • Temperature Range: -40°C to +110°C



F	871	В	K	104	М	330	С
Capacitor Class	Series	Lead Spacing (mm)	Size Code	Capacitance Code (pF)	Capacitance Tolerance	Voltage (VAC)	Packaging
F = Film	X1, Metallized Polypropylene	A = 10 B = 15 D = 22.5 F = 27.5 R = 37.5	See Dimension Table	First two digits represent significant figures. Third digit specifies number of zeros.	K = ±10% M = ±20%	330	See Ordering Options Table

F873

## F872

Case Size	Voltage (VDC/VAC)	Case Size	Voltage (VDC/VAC)	Case Size	Voltage (VDC/VAC)
0038 3128	1,000/480	0030 3120	1,000/480	0036 3126	1,500/760
10 - 13 x 11 x 5	5.6 nF - 8.2 nF	27.5 – 31.5 x 17 x 9	150 nF – 180 nF	22.5 – 26 x 14.5 x 6	10 nF - 25 nF
10 - 13 x 12 x 6	10 nF – 12 nF	27.5 – 31.5 x 19 x 31	680 nF – 1 µF	22.5 – 26 x 16 x 7	25 nF – 39 nF
10 - 13 x 17 x 7	15 nF - 18 nF	27.5 – 31.5 x 20 x 11	220 nF - 330 nF	22.5 – 26 x 16 x 8	47 nF
10 - 13 x 7.5 x 9.5	1.8 nF – 10 nF	27.5 – 31.5 x 25 x 13	390 nF – 470 nF	22.5 – 26 x 17 x 8.5	47 nF - 56 nF
10 - 13 x 8 x 4	1 nF - 3.9 nF	27.5 – 31.5 x 28 x 14	560 nF	22.5 – 26 x 18.5 x 10	68 nF - 82 nF
10 – 13 x 9 x 4	3.9 nF - 4.7 nF	27.5 – 31.5 x 28 x 17.5	680 nF – 820 nF	22.5 – 26 x 18.5 x 9	56 nF
15 – 18 x 10 x 4	2.7 nF - 15 nF	27.5 - 31.5 x 29 x 19	820 nF – 1 μF	22.5 – 26 x 20 x 11	82 nF - 100 nF
15 – 18 x 11 x 5	18 nF – 22 nF	27.5 – 31.5 x 37 x 22	1 μF – 1.8 μF	22.5 – 26 x 22 x 13	100 nF - 120 nF
15 – 18 x 12 x 13	39 nF - 82 nF	27.5 – 31.5 x 40 x 17	820 nF - 1.2 μF	22.5 – 26 x 24.5 x 15.5	150 nF - 180 nF
15 – 18 x 12 x 6	33 nF	37.5 – 41 x 15 x 24	560 nF – 680 nF	27.5 – 31.5 x 12.5 x 21	100 nF - 150 nF
15 - 18 x 12.5 x 5.5	25 nF – 33 nF	37.5 – 41 x 19 x 24	820 nF - 1.2 μF	27.5 - 31.5 x 16 x 27.5	220 nF - 250 nF
15 - 18 x 12.5 x 9	15 nF – 47 nF	37.5 – 41 x 22 x 11	330 nF – 560 nF	27.5 – 31.5 x 17 x 9	56 nF – 82 nF
15 - 18 x 13.5 x 7.5	39 nF – 56 nF	37.5 – 41 x 24 x 13	680 nF	27.5 – 31.5 x 19 x 31	270 nF - 330 nF
15 - 18 x 14.5 x 8.5	56 nF – 68 nF	37.5 – 41 x 26 x 15	820 nF – 1 µF	27.5 – 31.5 x 20 x 11	82 nF – 120 nF
15 – 18 x 16 x 10	82 nF – 100 nF	37.5 – 41 x 28.5 x 16	1 μF – 1.2 μF	27.5 – 31.5 x 25 x 13	150 nF - 220 nF
15 – 18 x 17.5 x 6	39 nF – 56 nF	37.5 – 41 x 32 x 19	1.2 μF – 1.8 μF	27.5 – 31.5 x 28 x 14	220 nF - 250 nF
15 - 18 x 18.5 x 7.5	56 nF – 82 nF	37.5 – 41 x 38 x 21	1.8 µF	27.5 - 31.5 x 28 x 17.5	250 nF - 330 nF
15 – 18 x 19 x 11	100 nF - 120 nF	37.5 – 41 x 44 x 24	2.2 μF – 2.7 μF	27.5 – 31.5 x 29 x 19	330 nF – 390 nF
15 - 18 x 20 x 12	120 nF - 150 nF	37.5 – 41 x 45 x 30	3.3 μF – 3.5 μF	27.5 – 31.5 x 37 x 22	390 nF - 560 nF
22.5 – 26 x 14.5 x 6	39 nF – 68 nF			27.5 - 31.5 x 40 x 17	250 nF – 390 nF
22.5 – 26 x 16 x 7	82 nF – 120 nF			37.5 – 41 x 15 x 24	220 nF - 330 nF
22.5 – 26 x 16 x 8	120 nF			37.5 – 41 x 19 x 24	330 nF – 470 nF
22.5 – 26 x 17 x 8.5	150 nF			37.5 – 41 x 22 x 11	150 nF - 220 nF
22.5 - 26 x 18.5 x 10	180 nF – 220 nF			37.5 – 41 x 24 x 13	250 nF - 330 nF
22.5 – 26 x 18.5 x 9	150 nF – 180 nF			37.5 – 41 x 26 x 15	330 nF
22.5 – 26 x 20 x 11	220 nF			37.5 – 41 x 28.5 x 16	390 nF – 470 nF
22.5 – 26 x 22 x 13	250 nF - 390 nF			37.5 - 41 x 32 x 19	470 nF - 680 nF
22.5 – 26 x 24.5 x 15.5	390 nF – 470 nF			37.5 – 41 x 38 x 21	680 nF - 820 nF
27.5 - 31.5 x 12.5 x 21	250 nF – 390 nF			37.5 – 41 x 44 x 24	820 nF - 1.2 μF
27.5 - 31.5 x 16 x 27.5	560 nF - 680 nF			37.5 – 41 x 45 x 30	1.5 μF – 1.8 μF



**R49 Series, Metallized Polypropylene, 330 VAC Capacitance Range:** 0.047 to 6.8 µF • **Temperature Range:** -40°C to +110°C



R49	Α	N	3150	00	B1	Μ
Series	Rated Voltage (VAC)	Lead Spacing (mm)	Capacitance Code (pF)	Lead and Packaging Code	Internal Use	Capacitance Tolerance
X1, Metallized Polypropylene	A = 330	I = 15.0 N = 22.5 R = 27.5 W = 37.5	The last three digits represent significant figures. The first digit specifies number of zeros to be added.	See Ordering Options Table	A1 A2 A3 B1 B2	K = ±10% M = ±20%

	Voltage (VDC/VAC)		Cone Size	Voltage (VDC/VAC)
Case Size	800/330	Case Size		800/330
15 – 18 x 11 x 5	47 nF		27.5 – 32 x 20 x 11	470 nF - 680 nF
15 – 18 x 12 x 6	68 nF		27.5 – 32 x 22 x 13	680 nF
15 – 18 x 14.5 x 8.5	150 nF		27.5 – 32 x 28 x 14	1 μF – 1.5 μF
15 – 18 x 16 x 10	220 nF		27.5 – 32 x 33 x 18	1.5 μF – 2.2 μF
15 – 18 x 17.5 x 6	68 nF – 100 nF		27.5 – 32 x 37 x 22	2.2 μF – 3.3 μF
15 – 18 x 19 x 11	220 nF		27.5 – 32 x 25 x 13	1 μF
22.5 - 26.5 x 15 x 6	150 nF		37.5 - 41.5 x 22 x 11	680 nF – 1 µF
22.5 - 26.5 x 16 x 7	220 nF		37.5 - 41.5 x 24 x 13	1.5 µF
22.5 - 26.5 x 17 x 8.5	330 nF		37.5 – 41.5 x 28.5 x 16	2.2 µF
22.5 - 26.5 x 18.5 x 10	470 nF		37.5 - 41.5 x 32 x 19	3.3 μF – 4.7 μF
22.5 – 26.5 x 22 x 13	680 nF		37.5 - 41.5 x 45 x 30	6.8 µF
27.5 – 32 x 17 x 9	330 nF			



# **900 Series, Radial Disc, Encapsulated, AC Type, X1 400 VAC/Y2 250 VAC (Industrial Grade) Capacitance Range:** 2 pF to 10,000 pF • **Temperature Range:** -40°C to +125°C



C9	1	1	U	620	J	U	S	D	Α	Α	7317
Ceramic Series	Body Diameter	Lead Spacing <sup>1</sup>	Spec.	Capacitance Code (pF)	Capacitance Tolerance	Rated Voltage	Dielectric/ Temp. Char.	Design	Lead Config. <sup>2</sup>	Failure Rate	Packaging (C-Spec)
C9 = Ceramic 900 Series	0 = 7.0 mm 1 = 8.0 mm 2 = 9.0 mm 3 = 10.0 mm 4 = 11.0 mm 5 = 12.0 mm 7 = 14.0 mm	1 = 10.0 mm	U = Safety	Two significant digits and number of zeroes	J = ±5% K = ±10% M = ±10%	U = X1 400 VAC /Y1 250 VAC	S = SL Y = Y5P W = Y5U V = Y5V	D = Disc	A = Straight B = Vertical Kink C = Outside Kink	A = N/A	See "Packaging C-Spec Ordering Options Table"

Cono Sizo	Voltage							
Case Size	Y5V	SL	Y5P	Y5U				
7	1 nF - 2.2 nF	10 pF – 51 pF	100 pF – 470 pF	1 nF				
8		56 pF – 75 pF	560 pF – 680 pF					
9	3.3 nF	82 pF	820 pF – 1 nF	1.5 nF – 2.2 nF				
10		100 pF						
11	3.9 nF - 4.7 nF			3.3 nF				
13	6.8 nF			3.9 nF - 4.7 nF				
15	0.01 µF							



# **KJY Series, Y5P, Y5U & Y5V Dielectric, Y2 250 VAC/X1 400 VAC Capacitance Range:** 100 pF to 10,000 pF • **Temperature Range:** -25°C to +125°C



KJY	102	М	R	31		F	Α
Series	Capacitance Code (pF)	Capacitance Tolerance	Rated Voltage	Size	e (mm)	Lead Spacing (mm)	Temperature Code
	Two significant digits and number of zeros	K = ±10% M = ±20%	R = 400 VAC/X1, 250 VAC/Y2	28 = 7 31 = 8 35 = 9 39 = 10 43 = 11 47 = 12 51 = 13	55 = 14 59 = 15 63 = 16 67 = 17 71 = 18 79 = 20 87 = 22	F = 10 G = 12.5	A = Y5U or better B = Y5V G = Y5P

Coop Size		Voltage						
Case Size	Y5V	Y5P	Y5U					
8	1 nF - 1.5 nF	100 pF – 470 pF	1 nF					
9	2.2 nF	560 pF – 680 pF	1.5 nF					
10	3.3 nF	1 nF	2.2 nF					
11	3.9 nF		2.5 nF					
12	4.7 nF		3.3 nF					
13			3.9 nF					
14			4.7 nF					
16	0.01 µF							



# ERO610 Series, Radial AC Type, X1 440 VAC/Y2 250 VAC Capacitance Range: 1,000 pF to 12,000 pF • Temperature Range: -40°C to +125°C



ERO610	Т	102	М	CF0
Ceramic Series	Voltage Rating (Safety Subclass Rating)	Capacitance Code (pF)	Capacitance Tolerance	Lead configuration / Packaging Code
ERO610	T = X1 440 VAC/Y2 250 VAC	Two significant digits andw Number of zeroes	M = ±20%	*See Packaging Options

Case Size	Voltage
	Y5U
6.5	1 nF
8	1.5 nF – 1.8 nF
9	2.2 nF – 2.5 nF
10	3.3 nF
12	4.7 nF – 5 nF
17	6.8 nF - 8.2 nF
21	0.01 µF - 0.012 µF

## Safety/EMI



## X1 Class (cont.)

# ERK610 Series, Radial AC Type, X1 440 VAC/Y2 300 VAC Capacitance Range: 33 pF to 4,700 pF • Temperature Range: -40°C to +125°C



ERK610	Z	102	K	CF0
Ceramic	Voltage Rating	Capacitance	Capacitance	Lead configuration/
Series	(Safety Subclass Rating)	Code (pF)	Tolerance	Packaging Code
ERK610	Z = X1 440 VAC/Y2 300 VAC	Two significant digits and Number of zeroes	K = ±10% M = ±20%	*See Packaging Options

Coop Size	Voltage							
Case Size	U2J	Y5S	Y5T	Y5U				
7				1 nF				
8	33 pF – 47 pF	68 pF – 100 pF	150 pF – 330 pF	470 pF – 1.5 nF				
9				680 pF				
10				2.2 nF				
12				3.3 nF				
13.5				3.9 nF - 4.7 nF				



# **R47 Series, Metallized Polypropylene, 440 VAC (Automotive Grade) Capacitance Range:** 0.0047 to 2.2 μF • **Temperature Range:** -40°C to +110°C



R47	4	I	2100	00	<b>A</b> 1	Μ
Series	Rated Voltage (VAC)	Lead Spacing (mm)	Capacitance Code (pF)	Packaging	Internal Use	Capacitance Tolerance
X1, Metallized Polypropylene	4 = 440	F = 10.0 I = 15.0 N = 22.5 R = 27.5 W = 37.5	The last three digits represent significant figures. The first digit specifies number of zeros to be added.	See Ordering Options Table	A1 A2 A3	K = ±10% M = ±20%

Case Size	Voltage (VDC/VAC)	Case Size	Voltage (VDC/VAC)	Case Size	Voltage (VDC/VAC)
	1,000/440		1,000/440		1,000/440
10 – 13 x 11 x 5	6.8 nF	15 - 18 x 18.5 x 7.5	68 nF	27.5 – 32 x 22 x 13	470 nF - 560 nF
10 – 13 x 12 x 6	8.2 nF – 10 nF	15 – 18 x 19 x 11	100 nF	27.5 – 32 x 28 x 14	680 nF
10 – 13 x 9 x 4	4.7 nF	22.5 – 26.5 x 13.5 x 6.5	47 nF	27.5 – 32 x 33 x 18	820 nF - 1.2 μF
15 – 18 x 11 x 5	10 nF – 18 nF	22.5 – 26.5 x 15 x 6	47 nF - 68 nF	27.5 – 32 x 37 x 22	1.5 μF
15 – 18 x 12 x 13	68 nF	22.5 - 26.5 x 16 x 7	100 nF	37.5 - 41.5 x 22 x 11	470 nF - 560 nF
15 – 18 x 12 x 6	22 nF – 33 nF	22.5 - 26.5 x 17 x 8.5	120 nF	37.5 - 41.5 x 24 x 13	680 nF
15 - 18 x 12.5 x 9	47 nF	22.5 - 26.5 x 18.5 x 10	150 nF – 180 nF	37.5 - 41.5 x 28.5 x 16	820 nF – 1 μF
15 – 18 x 13.5 x 7.5	39 nF – 47 nF	22.5 – 26.5 x 20 x 11	220 nF	37.5 - 41.5 x 32 x 19	1.2 μF – 1.5 μF
15 – 18 x 14.5 x 8.5	56 nF	22.5 - 26.5 x 22 x 13	270 nF - 330 nF	37.5 - 41.5 x 40 x 20	1.8 μF – 2.2 μF
15 – 18 x 16 x 10	68 nF - 82 nF	27.5 – 32 x 17 x 9	150 nF – 270 nF		
15 – 18 x 17.5 x 6	47 nF	27.5 – 32 x 20 x 11	330 nF – 390 nF		





### 900 Series, Radial Disc, Encapsulated, AC Type, X1 440 VAC/Y2 300 VAC (Industrial Grade)

Capacitance Range: 2 pF to 10,000 pF • Temperature Range: -40°C to +125°C



C9	7	1	U	472	M	Z	W	D	Α	A	7317
Ceramic	Body	Lead	Snoo	Capacitance	Capacitance	Rated	Dielectric/	Dooign	Lead	Failure	Packaging
Series	Diameter	Spacing <sup>1,2,4</sup>	spec.	Code (pF)	Tolerance	Voltage	Temp. Char.	Design	Config.1,3,4	Rate	(C-Spec)
C9 = Ceramic 900 Series	0 = 7.0 mm 1 = 8.0 mm 2 = 9.0 mm 3 = 10.0 mm 4 = 11.0 mm 6 = 13.0 mm 8 = 15.0 mm	7 = 7.5 mm 1 = 10.0 mm	U = Safety	Two significant digits and number of zeroes	J = ±5% K = ±10% M = ±20%	Z = X1 440 VAC /Y2 300 VAC	S = SL Y = Y5P W = Y5U V = Y5V	D = Disc	A = Straight B = Vertical Kink C = Outside Kink D = Inside Kink	A = N/A	See "Packaging C-Spec Ordering Options Table"

Coop Size	Voltage						
Case Size	Y5V	SL	Y5P	Y5U			
7	1 nF - 2.2 nF	10 pF – 51 pF	100 pF – 470 pF	1 nF			
8		56 pF – 75 pF	560 pF – 680 pF				
9	3.3 nF	82 pF	820 pF – 1 nF	1.5 nF – 2.2 nF			
10		100 pF					
11	3.9 nF - 4.7 nF			3.3 nF			
13	6.8 nF			3.9 nF - 4.7 nF			
15	0.01 µF						



## **PHE844 Series, Metallized Polypropylene, 440/480 VAC Capacitance Range:** 0.1 to 2.2 µF • **Temperature Range:** -40°C to +105°C

### Legacy Part Number System



PHE844	R	D	6100	Μ	R06L2
Series	Rated Voltage (VAC)	Lead Spacing (mm)	Capacitance Code (pF)	Capacitance Tolerance	Packaging
X1, Metallized Polypropylene	R = 440	D = 22.5 F = 27.5 R = 37.5	The last three digits represent significant figures. The first digit specifies the total number of digits.	K = ±10% M = ±20%	See Ordering Options Table

### **New KEMET Part Number System**

F	844	D	H	104	М	440	С
Capacitor Class	Series	Lead Spacing (mm)	Size Code	Capacitance Code (pF)	Capacitance Tolerance	Rated Voltage (VAC)	Packaging
F = Film	X1, Metallized Polypropylene	D = 22.5 F = 27.5 R = 37.5	See Dimension Table	First two digits represent significant figures. Third digit specifies number of zeros.	K = ±10% M = ±20%	440 = 440	See Ordering Options Table

Case Size	Voltage (VDC/VAC)
	1,000/440
22.5 – 26 x 16 x 8	100 nF
22.5 – 26 x 18.5 x 9	150 nF
22.5 – 26 x 21.5 x 11	220 nF
22.5 – 26 x 23 x 13.5	330 nF
22.5 – 26 x 24.5 x 15.5	470 nF
27.5 – 31.5 x 20.5 x 10.5	220 nF
27.5 - 31.5 x 23 x 13.5	330 nF
27.5 – 31.5 x 24.5 x 14.5	470 nF
27.5 - 31.5 x 28 x 17.5	680 nF
27.5 – 31.5 x 30 x 21	1 μF
37.5 – 41 x 24 x 13	470 nF – 680 nF
37.5 – 41 x 26 x 15	1 μF
37.5 – 41 x 36 x 19	1.5 μF
37.5 – 41 x 38 x 21	2.2 µF



**P278 Series, Metallized Impregnated Paper, 480 VAC Capacitance Range:** 0.001 to 0.15 μF • **Temperature Range:** -40°C to +110°C



Р	278	H	E	102	М	480	Α
Capacitor Class	Series	Lead Spacing (mm)	Size Code	Capacitance Code (pF)	Capacitance Tolerance	Rated Voltage (VAC)	Packaging
P = Paper	X1, Metallized Paper	H = 10.2 Q = 15.2 C = 20.3 S = 22.5 E = 25.4	See Dimension Table	First two digits represent significant figures. Third digit specifies number of zeros.	M = ±20%	480 = 480	See Ordering Options Table

Coso Sizo	Voltage (VDC/VAC)
Case Size	1,000/440
10.2 - 13.5 x 10.5 x 5.1	4.7 nF
10.2 - 13.5 x 7.5 x 3.9	1 nF - 2.2 nF
10.2 - 13.5 x 8.2 x 4.1	3.3 nF
15.2 - 18.5 x 10.5 x 5.2	6.8 nF – 10 nF
15.2 – 18.5 x 11.1 x 5.5	15 nF
15.2 - 18.5 x 14.3 x 8.5	22 nF
20.3 – 24 x 14 x 7.6	33 nF

Casa Siza	Voltage (VDC/VAC)
Case Size	1,000/440
20.3 – 24 x 15 x 9	47 nF
20.3 - 24 x 16.5 x 11.3	68 nF
22.5 – 27 x 17 x 8	33 nF - 47 nF
22.5 – 27 x 19 x 10	68 nF
22.5 – 27 x 22 x 12	100 nF
25.4 - 30.5 x 19 x 12.1	100 nF
25.4 - 30.5 x 22 x 15.3	150 nF



# **PHE845 Series, Metallized Polypropylene, 760 VAC Capacitance Range:** 0.01 to 1.0 μF • **Temperature Range:** -40°C to +105°C

### Legacy Part Number System



PHE845	V	D	5100	Μ	R06L2
Series	Rated Voltage (VAC)	Lead Spacing (mm)	Capacitance Code (pF)	Capacitance Tolerance	Packaging
X1, Metallized Polypropylene	V = 760	D = 22.5 F = 27.5 R = 37.5	The last three digits represent significant figures. The first digit specifies the total number of digits.	K = ±10% M = ±20%	See Ordering Options Table

### **New KEMET Part Number System**

F	845	D	D	103	М	760	С
Capacitor Class	Series	Lead Spacing (mm)	Size Code	Capacitance Code (pF)	Capacitance Tolerance	Rated Voltage (VAC)	Packaging
F = Film	X1, Metallized Polypropylene	D = 22.5 F = 27.5 R = 37.5	See Dimension Table	First two digits represent significant figures. Third digit specifies number of zeros.	K = ±10% M = ±20%	760 = 760	See Ordering Options Table

	Voltage (VDC/VAC)
Case Size	1,500/760
22.5 - 26 x 14.5 x 6.5	10 nF – 22 nF
22.5 – 26 x 16.5 x 7	33 nF
22.5 – 26 x 18.5 x 9	47 nF
22.5 – 26 x 19 x 10.5	68 nF
22.5 – 26 x 21.5 x 11	100 nF
22.5 – 26 x 23 x 13.5	150 nF
22.5 – 26 x 24.5 x 15.5	220 nF
27.5 - 31.5 x 20.5 x 10.5	100 nF
27.5 – 31.5 x 22.5 x 11.5	150 nF
27.5 – 31.5 x 23 x 13.5	220 nF
27.5 – 31.5 x 29 x 19	330 nF
27.5 – 31.5 x 30 x 21	470 nF
37.5 – 41 x 26 x 15	470 nF
37.5 - 41 x 32 x 16.5	470 nF
37.5 – 41 x 36 x 19	680 nF
37.5 – 41 x 38 x 21	1 μF

## Safety/EMI



## X1 Class (cont.)

# ERP610 Series, Radial AC Type, X1 760 VAC/Y2 500 VAC Capacitance Range: 33 pF to 4,700 pF • Temperature Range: -40°C to +125°C



ERP610	W	102	М	DF0
Ceramic	Voltage Rating	Capacitance	Capacitance	Lead configuration /
Series	(Safety Subclass Rating)	Code (pF)	Tolerance	Packaging Code
ERP610	W = X1 760 VAC/Y1 500 VAC	Two significant digits and Number of zeroes	K = ±10% M = ±20%	*See Packaging Options

Coop Size	Voltage						
Case Size	U2J	Y5S	Y5T	Y5U			
8	33 pF	47 pF – 100 pF	150 pF – 220 pF	330 pF - 680 pF			
9				1 nF			
10				1.5 nF			
12				2.2 nF			
13				2.7 nF			
15				3.3 nF – 3.9 nF			
17				4.7 nF			





## X2 Class

**P409 Series Metallized Polypropylene, 275 VAC Capacitance Range:** 0.047 to 0.47 μF • **Temperature Range:** -40°C to +85°C



Р	409	Q	М	473	М	275	Α	H470
Capacitor Class	Series	Lead Spacing (mm)	Size Code	Capacitance Code (pF)	Capacitance Tolerance	Rated Voltage (VAC)	Packaging	Resistance ( $\Omega$ )
P= Metallized Paper	RC Snubber	Q = 15.2 C = 20.3 E = 25.4	See Dimension Table	First two digits represent significant figures. Third digit specifies number of zeros.	M = ±20%	275 = 275	See Ordering Options Table	H plus first two digits represent significant figures. Third digit specifies number of zeros.

	Voltage (VDC/VAC)
Case Size	630/250
15.2 - 18.5 x 13 x 7.3	47 nF
20.3 – 24 x 14 x 7.6	100 nF
20.3 – 24 x 16.5 x 11.3	100 nF – 220 nF
25.4 - 30.5 x 19 x 12.1	220 nF
25.4 - 30.5 x 22 x 15.3	220 nF - 470 nF



# **PME271M Series Metallized Impregnated Paper, 275 VAC Capacitance Range:** 0.001 to 0.6 µF • **Temperature Range:** -40°C to +110°C

### Legacy Part Number System



PME271	М	<b>(B)</b>	610(0)	Μ	R30
Series	Rated Voltage (VAC)	Lead Spacing (mm)	Capacitance Code (pF)	Capacitance Tolerance	Packaging
X2, Metallized Paper	M = 275	Blank = Standard A = 10.2 B = 15.2 D = 22.5	The last three digits represent significant figures. The first digit specifies the total number of digits.	M = ±20% (for C ≤ 0.1 μF) K = ±10% (for C > 0.1 μF)	See Ordering Options Table

### **New KEMET Part Number System**

Р	276	Q	E	104	М	275	Α
Capacitor Class	Series	Lead Spacing (mm)	Size Code	Capacitance Code (pF)	Capacitance Tolerance	Rated Voltage (VAC)	Packaging
P = Paper	X2, Metallized Paper	H = 10.2 Q = 15.2 C = 20.3 S = 22.5 E = 25.4	See Dimension Table	First two digits represent significant figures. Third digit specifies number of zeros.	$M = \pm 20\%$ (for C ≤ 0.1 µF) K = $\pm 10\%$ (for C > 0.1 µF)	275 = 275	See Ordering Options Table

	Voltage (VDC/VAC)			
Case Size	630/275			
10.2 - 13.5 x 10.5 x 5.1	4.7 nF - 6.8 nF			
10.2 - 13.5 x 7.5 x 3.9	1 nF – 2.2 nF			
10.2 - 13.5 x 8.2 x 4.1	3.3 nF			
15.2 - 18.5 x 10.5 x 5.2	6.8 nF – 15 nF			
15.2 - 18.5 x 12.5 x 6	22 nF – 47 nF			
15.2 - 18.5 x 13.5 x 7.8	68 nF			
15.2 - 18.5 x 14.3 x 8.5	100 nF			
20.3 – 24 x 14 x 7.6	100 nF			
20.3 – 24 x 15 x 9	150 nF			
20.3 - 24 x 16.5 x 11.3	220 nF			
22.5 – 27 x 17 x 8	100 nF - 150 nF			
22.5 – 27 x 19 x 10	220 nF			
22.5 – 27 x 22 x 12	270 nF - 330 nF			
25.4 – 30.5 x 17.3 x 10.5	270 nF			
25.4 - 30.5 x 19 x 12.1	330 nF			
25.4 - 30.5 x 22 x 15.3	470 nF - 600 nF			



# **R46 (Miniature) Series, Metallized Polypropylene, 275 VAC Capacitance Range:** 0.033 to 10 μF • **Temperature Range:** -40°C to +110°C



	R46	K	I. I.	3470	00	P0	М
	Series	Rated Voltage (VAC)	Lead Spacing (mm)	Capacitance Code (pF)	Packaging	Internal Use	Capacitance Tolerance
X2 Po	2, Metallized olypropylene	K = 275	F = 10.0 I = 15.0 N = 22.5 R = 27.5 W = 37.5	The last three digits represent significant figures. The first digit specifies number of zeros to be added.	See Ordering Options Table	P0 P1 P2 P3	K = ±10% M = ±20%

Case Size	Voltage (VDC/VAC)	Case Size	Voltage (VDC/VAC)	Case Size	Voltage (VDC/VAC)
	560/275		560/275		560/275
10 – 13 x 11 x 5	33 nF – 100 nF	15 - 18 x 18.5 x 7.5	330 nF – 470 nF	27.5 – 32 x 25 x 13	2.2 µF
10 – 13 x 12 x 6	68 nF – 150 nF	15 - 18 x 19 x 11	470 nF - 820 nF	27.5 – 32 x 28 x 14	2.2 μF – 4.7 μF
10 - 13 x 9 x 4	10 nF - 47 nF	22.5 – 26.5 x 15 x 6	150 nF – 560 nF	27.5 – 32 x 33 x 18	3.3 μF – 4.7 μF
15 – 18 x 11 x 5	10 nF – 150 nF	22.5 – 26.5 x 16 x 7	470 nF - 680 nF	27.5 – 32 x 37 x 22	4.7 μF – 6.8 μF
15 – 18 x 12 x 13	330 nF	22.5 - 26.5 x 17 x 8.5	1 µF	37.5 - 41.5 x 22 x 11	1.5 μF – 2.2 μF
15 – 18 x 12 x 6	150 nF – 220 nF	22.5 - 26.5 x 18.5 x 10	680 nF - 1.5 μF	37.5 – 41.5 x 24 x 13	2.2 μF – 3.3 μF
15 – 18 x 12.5 x 9	150 nF – 470 nF	22.5 - 26.5 x 20 x 11	1 μF – 1.5 μF	37.5 – 41.5 x 28.5 x 16	3.3 μF – 4.7 μF
15 – 18 x 13.5 x 7.5	220 nF - 330 nF	22.5 - 26.5 x 22 x 13	2.2 µF	37.5 – 41.5 x 32 x 19	4.7 μF − 6.8 μF
15 – 18 x 14.5 x 8.5	330 nF – 470 nF	27.5 – 32 x 17 x 9	470 nF – 1 μF	37.5 - 41.5 x 40 x 20	6.8 µF – 10 µF
15 – 18 x 16 x 10	330 nF – 680 nF	27.5 – 32 x 20 x 11	1 μF - 1.5 μF	37.5 - 41.5 x 44 x 24	6.8 µF
15 – 18 x 17.5 x 6	220 nF – 470 nF	27.5 – 32 x 22 x 13	1.5 μF – 2.2 μF	37.5 - 41.5 x 45 x 30	10 µF



# **R46 Series, Metallized Polypropylene, 275 VAC, 125°C Capacitance Range:** 0.01 to 1 μF • **Temperature Range:** -40°C to +125°C



R46	K	N	3220	00	H1	Μ
Series	Rated Voltage (VAC)	Lead Spacing (mm)	Capacitance Code (pF)	Packaging	Internal Use	Capacitance Tolerance
X2, Metallized Polypropylene	K = 275	F = 10.0 I = 15.0 N = 22.5	The last three digits represent significant figures. The first digit specifies number of zeros to be added.	See Ordering Options Table	H = High Temperature H1 H2 H3 H4	K = ±10% M = ±20%

	Voltage (VDC/VAC)
Case Size	560/275
10 – 13 x 11 x 5	10 nF – 33 nF
10 - 13 x 12 x 6	47 nF - 68 nF
15 – 18 x 11 x 5	10 nF - 68 nF
15 – 18 x 12 x 13	330 nF
15 – 18 x 12 x 6	100 nF
15 – 18 x 12.5 x 9	150 nF - 220 nF
15 – 18 x 13.5 x 7.5	150 nF
15 - 18 x 14.5 x 8.5	220 nF
15 – 18 x 16 x 10	330 nF
15 – 18 x 17.5 x 6	150 nF - 220 nF
15 - 18 x 18.5 x 7.5	220 nF - 330 nF
15 – 18 x 19 x 11	470 nF
22.5 – 26.5 x 15 x 6	150 nF - 220 nF
22.5 – 26.5 x 16 x 7	330 nF
22.5 - 26.5 x 18.5 x 10	470 nF
22.5 - 26.5 x 20 x 11	680 nF
22.5 - 26.5 x 22 x 13	1 μF



**F861 Series Metallized Polypropylene Film, 310 VAC Capacitance Range:** 0.01 - 4.7 μF • **Temperature Range:** -40°C to +110°C



F	861	В	С	104	М	310	С
Capacitor Class	Series	Lead Spacing (mm)	Size Code	Capacitance Code (pF)	Capacitance Tolerance	Voltage (VAC)	Packaging
F = Film	X2, Metallized Polypropylene	K = 7.5 A = 10 B = 15 D = 22.5 F = 27.5 R = 37.5	See Dimension Table	First two digits represent significant figures. Third digit specifies number of zeros.	K = ±10% M = ±20%	310	See Ordering Options Table

Cone Size	Voltage (VDC/VAC)			Voltage (VDC/VAC)	
Case Size	630/310		Case Size	630/310	
7.5 – 10 x 10.5 x 5	18 nF - 33 nF	1	22.5 – 26 x 14.5 x 6	39 nF – 470 nF	
7.5 – 10 x 8 x 4	10 nF – 12 nF		22.5 – 26 x 16 x 7	470 nF - 680 nF	
7.5 – 10 x 9 x 4	15 nF		22.5 – 26 x 16 x 8	820 nF	
7.5 – 10.5 x 12 x 6	33 nF – 47 nF		22.5 – 26 x 17 x 8.5	1 µF	
10 - 13 x 11 x 5	68 nF - 100 nF		22.5 - 26 x 18.5 x 10	1.2 μF	
10 - 13 x 12 x 6	100 nF - 150 nF		22.5 – 26 x 18.5 x 9	1.2 μF	
10 - 13 x 17 x 7	150 nF – 270 nF		22.5 – 26 x 20 x 11	1.5 μF – 1.8 μF	
10 – 13 x 7.5 x 9.5	10 nF - 120 nF		22.5 – 26 x 22 x 13	1.8 μF – 2.5 μF	
10 – 13 x 8 x 4	10 nF – 47 nF		22.5 – 26 x 24.5 x 15.5	2.5 μF – 3.3 μF	
10 – 13 x 9 x 4	56 nF		27.5 – 31.5 x 12.5 x 21	250 nF - 2.2 μF	
15 – 18 x 10 x 4	10 nF - 120 nF		27.5 – 31.5 x 16 x 27.5	2.5 μF – 3.9 μF	
15 – 18 x 11 x 5	120 nF - 180 nF		27.5 – 31.5 x 17 x 9	150 nF - 1.2 μF	
15 – 18 x 12 x 13	270 nF - 680 nF		27.5 – 31.5 x 19 x 31	3.9 µF – 4.7 µF	
15 – 18 x 12 x 6	220 nF - 270 nF		27.5 – 31.5 x 20 x 11	1.2 μF – 1.8 μF	
15 - 18 x 12.5 x 5.5	180 nF – 220 nF		27.5 – 31.5 x 25 x 13	2.2 µF – 3.3 µF	
15 – 18 x 12.5 x 9	150 nF - 390 nF		27.5 – 31.5 x 28 x 14	3.3 µF	
15 - 18 x 13.5 x 7.5	270 nF - 390 nF		27.5 – 31.5 x 28 x 17.5	3.9 µF - 4.7 µF	
15 - 18 x 14.5 x 8.5	390 nF – 470 nF		27.5 – 31.5 x 40 x 17	3.3 µF - 4.7 µF	
15 - 18 x 16 x 10	560 nF - 680 nF		37.5 – 41 x 15 x 24	4.7 μF	
15 – 18 x 17.5 x 6	270 nF - 390 nF		37.5 – 41 x 19 x 24	4.7 μF	
15 - 18 x 18.5 x 7.5	470 nF - 560 nF		37.5 – 41 x 24 x 13	4.7 μF	
15 - 18 x 19 x 11	820 nF		37.5 – 41 x 26 x 15	4.7 μF	
15 - 18 x 20 x 12	1 μF	'			



# **F862 Series, Metallized Polypropylene for Harsh Environmental Conditions, 310 VAC (Automotive Grade) Capacitance Range:** 0.047 to 4.7 µF • **Temperature Range:** -40°C to +110°C



F	862	В	С	104	М	310	Z
Capacitor Class	Series	Lead Spacing (mm)	Size Code	Capacitance Code (pF)	Capacitance Tolerance	Voltage (VAC)	Packaging
F = Film	X2, Metallized Polypropylene	B = 15 D = 22.5 F = 27.5	See Dimension Table	First two digits represent significant figures. Third digit specifies number of zeros.	K = ±10% M = ±20%	310	See Ordering Options Table

Coop Size	Voltage (VDC/VAC)		
Case Size	630/310		
15 – 18 x 13.5 x 7.5	100 nF - 150 nF		
15 - 18 x 14.5 x 8.5	220 nF		
15 – 18 x 16 x 10	330 nF – 390 nF		
15 – 18 x 19 x 11	470 nF		
15 – 18 x 20 x 12	560 nF		
22.5 – 26 x 14.5 x 6	150 nF		
22.5 – 26 x 16 x 7	220 nF		
22.5 – 26 x 17 x 8.5	330 nF – 390 nF		
22.5 – 26 x 18.5 x 10	470 nF - 560 nF		
22.5 – 26 x 20 x 11	680 nF – 820 nF		
22.5 – 26 x 22 x 13	1 μF – 1.2 μF		
27.5 – 31.5 x 20 x 11	1 μF		
27.5 – 31.5 x 25 x 13	1.5 μF		
27.5 – 31.5 x 28 x 14	2.2 µF		
27.5 – 31.5 x 29 x 19	3.3 µF		
27.5 – 31.5 x 37 x 22	4.7 μF		



**R46 Series, Metallized Polypropylene, 310 VAC Capacitance Range:** 0.01 to 10 μF • **Temperature Range:** -40°C to +110°C



R46	3	N	3150	00	01	М
Series	Rated Voltage (VAC)	Lead Spacing (mm)	Capacitance Code (pF)	Packaging	Internal Use	Capacitance Tolerance
X2, Metallized Polypropylene	3 = 310	F = 10.0 I = 15.0 N = 22.5 R = 27.5 W = 37.5	The last three digits represent significant figures. The first digit specifies number of zeros to be added.	See Ordering Options Table	01 02 L2 M1 M2 N0 N1 N2	K = ±10% M = ±20%

Case Size	Voltage (VDC/VAC)	Case Size	Voltage (VDC/VAC)	Case Size	Voltage (VDC/VAC)
	630/310		630/310		630/310
10 – 13 x 11 x 5	33 nF – 47 nF	15 - 18 x 18.5 x 7.5	330 nF	27.5 – 32 x 28 x 14	2.2 µF
10 – 13 x 12 x 6	68 nF – 100 nF	15 – 18 x 19 x 11	470 nF - 600 nF	27.5 – 32 x 33 x 18	3.3 μF – 4.7 μF
10 – 13 x 9 x 4	10 nF – 22 nF	22.5 – 26.5 x 15 x 6	150 nF - 330 nF	27.5 – 32 x 37 x 22	4.7 µF
15 – 18 x 11 x 5	10 nF – 100 nF	22.5 – 26.5 x 16 x 7	470 nF	37.5 - 41.5 x 22 x 11	1.5 μF – 2.2 μF
15 – 18 x 12 x 13	330 nF	22.5 - 26.5 x 18.5 x 10	680 nF – 1 µF	37.5 – 41.5 x 24 x 13	2.2 µF
15 – 18 x 12 x 6	150 nF	22.5 - 26.5 x 20 x 11	1 µF	37.5 – 41.5 x 28.5 x 16	3.3 μF – 4.7 μF
15 – 18 x 12.5 x 9	150 nF – 220 nF	22.5 - 26.5 x 22 x 13	1.5 µF	37.5 - 41.5 x 32 x 19	4.7 μF
15 – 18 x 13.5 x 7.5	220 nF	27.5 – 32 x 17 x 9	470 nF - 680 nF	37.5 – 41.5 x 40 x 20	6.8 µF
15 – 18 x 14.5 x 8.5	330 nF	27.5 – 32 x 20 x 11	1 µF	37.5 – 41.5 x 44 x 24	6.8 µF
15 – 18 x 16 x 10	330 nF – 470 nF	27.5 – 32 x 22 x 13	1.5 µF	37.5 - 41.5 x 45 x 30	10 µF
15 – 18 x 17.5 x 6	220 nF	27.5 – 32 x 25 x 13	2.2 µF		



# **R47 Series, Metallized Polypropylene, 440 VAC (Automotive Grade) Capacitance Range:** 0.0047 to 2.2 μF • **Temperature Range:** -40°C to +110°C



R47	4	F	1470	00	01	Μ
Series	Rated Voltage (VAC)	Lead Spacing (mm)	Capacitance Code (pF)	Packaging	Internal Use	Capacitance Tolerance
X2, Metallize Polypropyler	d 4 = 440 e	F = 10.0 I = 15.0 N = 22.5 R = 27.5 W = 37.5	The last three digits represent significant figures. The first digit specifies number of zeros to be added.	See Ordering Options Table	01 02 03	K = ±10% M = ±20%

Case Size	Voltage (VDC/VAC)	Case Size	Voltage se Size (VDC/VAC) Case Size		Voltage (VDC/VAC)
	1,000/440		1,000/440		1,000/440
10 - 13 x 11 x 5	6.8 nF	15 - 18 x 18.5 x 7.5	68 nF	27.5 – 32 x 22 x 13	470 nF – 560 nF
10 – 13 x 12 x 6	8.2 nF – 10 nF	15 – 18 x 19 x 11	100 nF	27.5 – 32 x 28 x 14	680 nF
10 – 13 x 9 x 4	4.7 nF	22.5 – 26.5 x 13.5 x 6.5	47 nF	27.5 – 32 x 33 x 18	820 nF – 1.2 μF
15 – 18 x 11 x 5	10 nF – 18 nF	22.5 – 26.5 x 15 x 6	47 nF – 68 nF	27.5 – 32 x 37 x 22	1.5 μF
15 – 18 x 12 x 13	68 nF	22.5 - 26.5 x 16 x 7	100 nF	37.5 - 41.5 x 22 x 11	470 nF - 560 nF
15 – 18 x 12 x 6	22 nF – 33 nF	22.5 - 26.5 x 17 x 8.5	120 nF	37.5 - 41.5 x 24 x 13	680 nF
15 - 18 x 12.5 x 9	47 nF	22.5 - 26.5 x 18.5 x 10	150 nF – 180 nF	37.5 - 41.5 x 28.5 x 16	820 nF – 1 μF
15 – 18 x 13.5 x 7.5	39 nF – 47 nF	22.5 - 26.5 x 20 x 11	220 nF	37.5 - 41.5 x 32 x 19	1.2 μF – 1.5 μF
15 - 18 x 14.5 x 8.5	56 nF	22.5 - 26.5 x 22 x 13	270 nF - 330 nF	37.5 - 41.5 x 40 x 20	1.8 μF – 2.2 μF
15 – 18 x 16 x 10	68 nF - 82 nF	27.5 – 32 x 17 x 9	150 nF – 270 nF		
15 – 18 x 17.5 x 6	47 nF	27.5 – 32 x 20 x 11	330 nF - 390 nF		



# R47 Series, Metallized Polypropylene, 520 VAC, 85°C (Automotive Grade) Capacitance Range: 0.0047 to 2.2 $\mu$ F • Temperature Range: -40°C to +85°C



R47	5	I.	2100	00	01	М
Series	Rated Voltage (VAC)	Lead Spacing (mm)	Capacitance Code (pF)	Lead and Packaging Code	Internal Use	Capacitance Tolerance
X2, Metallized Polypropylene	5 = 520	F = 10.0 I = 15.0 N = 22.5 R = 27.5 W = 37.5	Digits two – four indicate the first three digits of the capacitance value. First digit indicates the number of zeros to be added.	See Ordering Options Table	01 02 03	K = ±10% M = ±20%

Case Size	Voltage (VDC/VAC)	Case Size	Voltage (VDC/VAC)	Case Size	Voltage (VDC/VAC)
	1,000/520		1,000/520		1,000/520
10 – 13 x 11 x 5	6.8 nF	15 - 18 x 18.5 x 7.5	68 nF	27.5 – 32 x 22 x 13	470 nF - 560 nF
10 - 13 x 12 x 6	8.2 nF – 10 nF	15 – 18 x 19 x 11	100 nF	27.5 – 32 x 28 x 14	680 nF
10 - 13 x 9 x 4	4.7 nF	22.5 – 26.5 x 13.5 x 6.5	47 nF	27.5 – 32 x 33 x 18	820 nF - 1.2 μF
15 – 18 x 11 x 5	10 nF – 18 nF	22.5 – 26.5 x 15 x 6	47 nF - 68 nF	27.5 – 32 x 37 x 22	1.5 µF
15 – 18 x 12 x 13	68 nF	22.5 - 26.5 x 16 x 7	100 nF	37.5 – 41.5 x 22 x 11	470 nF - 560 nF
15 – 18 x 12 x 6	22 nF – 33 nF	22.5 – 26.5 x 17 x 8.5	120 nF	37.5 – 41.5 x 24 x 13	680 nF
15 – 18 x 12.5 x 9	47 nF	22.5 - 26.5 x 18.5 x 10	150 nF – 180 nF	37.5 - 41.5 x 28.5 x 16	820 nF - 1 µF
15 – 18 x 13.5 x 7.5	39 nF – 47 nF	22.5 - 26.5 x 20 x 11	220 nF	37.5 - 41.5 x 32 x 19	1.2 μF – 1.5 μF
15 - 18 x 14.5 x 8.5	56 nF	22.5 - 26.5 x 22 x 13	270 nF - 330 nF	37.5 – 41.5 x 40 x 20	1.8 μF – 2.2 μF
15 – 18 x 16 x 10	68 nF – 82 nF	27.5 – 32 x 17 x 9	150 nF - 270 nF		
15 – 18 x 17.5 x 6	47 nF	27.5 – 32 x 20 x 11	330 nF – 390 nF		



### PME264 Series Metallized Impregnated Paper, 660 VAC

Capacitance Range: 0.001 to 0.1 µF • Temperature Range: -40°C to +85°C

### Legacy Part Number System



### **PME264** Ν В 5100 Μ R30 Capacitance Series Rated Voltage (VAC) Lead Spacing (mm) Capacitance Code (pF) Packaging Tolerance X2, Metallized Paper N = 660 M = ±20% B = 15.2 The last three digits See Ordering C = 20.3 represent significant Options Table E = 25.4 figures. The first digit specifies the total number of digits.

### **New KEMET Part Number System**

Р	264	Q	E	103	М	660	Α
Capacitor Class	Series	Lead Spacing (mm)	Size Code	Capacitance Code (pF)	Capacitance Tolerance	Rated Voltage (VAC)	Packaging
P = Paper	X2, Metallized Paper	Q = 15.2 C = 20.3 E = 25.4	See Dimension Table	First two digits represent significant figures. Third digit specifies number of zeros.	M = ±20%	660 = 660	See Ordering Options Table

Coop Size	Voltage (VDC/VAC)
Case Size	1,500/660
15.2 - 18.5 x 10.5 x 5.2	1 nF - 4.7 nF
15.2 - 18.5 x 13 x 7.3	6.8 nF – 10 nF
20.3 – 24 x 14 x 7.6	15 nF
20.3 – 24 x 15 x 9	22 nF
20.3 – 24 x 16.5 x 11.3	33 nF
25.4 - 30.5 x 17 x 10.5	47 nF
25.4 - 30.5 x 19 x 12.1	68 nF
25.4 - 30.5 x 22 x 15.3	100 nF




## **Y1 Class**

### 900 Series, Radial Disc, Encapsulated, AH Type, X1 400 VAC/Y1 250 VAC (Industrial Grade)

Capacitance Range: 2.0 pF to 4,700 pF • Temperature Range: -25°C to +125°C



C9	1	1	U	620	J	U	S	D	Α	Α	7317
Ceramic	Body	Lead	Spec.	Capacitance	Capacitance	Rated	Dielectric/	Design	Lead Config. <sup>2</sup>	Failure	Packaging
Selles	Diameter	Spacing		Code (pr)	TOTELATICE	voltage	Temp. Chai.			кате	(C-Spec)
C9 = Ceramic 900 Series	0 = 7.0 mm 1 = 8.0 mm 2 = 9.0 mm 3 = 10.0 mm 4 = 11.0 mm 5 = 12.0 mm 7 = 14.0 mm	1 = 10.0 mm	U = Safety	Two significant digits and number of zeroes	J = ±5% K = ±10% M = ±10%	U = X1 400 VAC /Y1 250 VAC	S = SL Y = Y5P W = Y5U V = Y5V	D = Disc	A = Straight B = Vertical Kink C = Outside Kink	A = N/A	See "Packaging C-Spec Ordering Options Table"

Coop Size	Voltage									
Case Size	Y5V	SL	Y5P	Y5U						
7	1 nF	15 pF – 39 pF	100 pF – 330 pF							
8	1.5 nF	47 pF – 62 pF	470 pF	1 nF						
9	2.2 nF	68 pF – 82 pF	560 pF – 680 pF	1.5 nF						
10		100 pF		2.2 nF						
11	3.3 nF		1 nF							
12	4.7 nF			3.3 nF						
13				3.9 nF						
14				4.7 nF						



## **KJN Series, Y5P, Y5U and Y5V Dielectric, Y1 250/400 VAC/X1 440 VAC Capacitance Range:** 100 pF to 4,700 pF • **Temperature Range:** -25°C to +125°C



KJN	331	K	Q		35	F	G
Series	Capacitance Code (pF)	Capacitance Tolerance	Rated Voltage	Size	e (mm)	Lead Spacing (mm)	Temperature Code
	2 significant digits + number of zeros	K = ±10% M = ±20%	Q = 440 VAC/X1, 250 VAC/Y1	28 = 7 31 = 8 35 = 9 39 = 10 43 = 11 47 = 12 51 = 13	55 = 14 59 = 15 63 = 16 67 = 17 71 = 18 79 = 20 87 = 22	F = 10 G = 12.5	A = Y5U or better B = Y5V G = Y5P

Case Size	Voltage								
Case Size	Y5V	Y5P	Y5U						
9	1 nF - 1.5 nF	100 pF – 330 pF	1 nF						
10	2.2 nF	470 pF – 560 pF							
11		680 pF	1.5 nF						
12	3.3 nF								
13	3.9 nF		2.2 nF						
14	4.7 nF		3.3 nF						
15			3.9 nF						
16			4.7 nF						

#### 250 VAC

Case Size	Voltage								
Case Size	Y5V	Y5P	Y5U						
9	1 nF - 1.5 nF	100 pF – 470 pF	1 nF						
10	2.2 nF	560 pF – 680 pF							
11			1.5 nF						
12	3.3 nF		2.2 nF						
13	3.9 nF - 4.7 nF								
14			3.3 nF						
15			3.9 nF - 4.7 nF						





#### 900 Series, Radial Disc, Encapsulated, AH Type, X1 400 VAC/Y1 400 VAC (Industrial Grade)

Capacitance Range: 2.0 pF to 4,700 pF • Temperature Range: -25°C to +125°C



C9	3	1	U	101	J	V	S	D	Α	Α	7317
Ceramic Series	Body Diameter	Lead Spacing <sup>1</sup>	Spec.	Capacitance Code (pF)	Capacitance Tolerance	Rated Voltage	Dielectric/ Temp. Char.	Design	Lead Config. <sup>2</sup>	Failure Rate	Packaging (C-Spec)
C9 = Ceramic 900 Series	0 = 7.0 mm 1 = 8.0 mm 2 = 9.0 mm 3 = 10.0 mm 4 = 11.0 mm 5 = 12.0 mm 6 = 13.0 mm 7 = 14.0 mm	1 = 10.0 mm	U = Safety	Two significant digits and number of zeroes	J = ±5% K = ±10% M = ±20%	V = X1 400 VAC /Y1 400 VAC	S = SL Y = Y5P W = Y5U V = Y5V	D = Disc	A = Straight B = Vertical Kink C = Outside Kink	A = N/A	See "Packaging C-Spec Ordering Options Table"

Coop Size	Voltage									
Case Size	Y5V	SL	Y5P	Y5U						
7	1 nF	15 pF – 39 pF	100 pF – 330 pF							
8	1.5 nF	47 pF – 62 pF	470 pF	1 nF						
9	2.2 nF	68 pF – 82 pF	560 pF – 680 pF	1.5 nF						
10		100 pF		2.2 nF						
11	3.3 nF		1 nF							
12	4.7 nF			3.3 nF						
13				3.9 nF						
14				4.7 nF						



### PME295 Series Metallized Impregnated Paper, 440 VAC/480 VAC

Capacitance Range: 470 to 4,700 pF • Temperature Range: -40°C to +115°C

### Legacy Part Number System



PME295	R	В	3470	Μ	R30
Series	Rated Voltage (VAC)	Lead Spacing (mm)	Capacitance Code (pF)	Capacitance Tolerance	Packaging
Y1, Metallized Paper	R = 440	B = 15.0	The last three digits represent significant figures. The first digit specifies the total number of digits.	M = ±20%	See Ordering Options Table

Р	295	В	E	471	М	440	Α
Capacitor Class	Series	Lead Spacing (mm)	Size Code	Capacitance Code (pF)	Capacitance Tolerance	Rated Voltage (VAC)	Packaging
P = Paper	Y1, Metallized Paper	B = 15.0	See Dimension Table	First two digits represent significant figures. Third digit specifies number of zeros.	M = ±20%	440 = 440	See Ordering Options Table

Coop Sizo	Voltage (VDC/VAC)			
Case Size	1,500/480			
15 - 18 x 12.5 x 5.5	0.47 nF – 1 nF			
15 - 18 x 12.5 x 6.5	1.2 nF – 2.2 nF			
15 – 18 x 14.5 x 7.5	2.5 nF – 3.3 nF			
15 – 18 x 16 x 8.5	3.9 nF - 4.7 nF			





#### **900 Series, Radial Disc, Encapsulated, AS Type, X1 760 VAC/Y1 500 VAC (Industrial Grade) Capacitance Range:** 2,200 pF • **Temperature Range:** -25°C to +125°C



C9	6	1	U	222	М	W	W	D	Α	A	7317
Ceramic Series	Body Diameter	Lead Spacing <sup>1</sup>	Spec.	Capacitance Code (pF)	Capacitance Tolerance	Rated Voltage	Dielectric/ Temp. Char.	Design	Lead Config. <sup>1</sup>	Failure Rate	Packaging (C-Spec)
C9 = Ceramic 900	1 = 8.0 mm 2 = 9.0 mm 3 = 10.0 mm 5 = 12.0 mm 6 = 13.0 mm 7 = 14.0 mm 8 = 15.0 mm	1 = 10.0 mm	U = Safety	Two significant digits and number of zeroes	K = ±10% M = ±20%	W = X1 760 VAC/ Y1 500 VAC	Y = Y5P W = Y5U	D = Disc	A = Straight B = Vertical Kink C = Outside Kink	A = N/A	See "Packaging C-Spec Ordering Options Table"

Coop Size	Voltage					
Case Size	Y5P	Y5U				
8	100 pF – 330 pF					
9	470 pF	1 nF				
10	560 pF – 680 pF	1.5 nF				
12	1 nF					
13		2.2 nF - 3.3 nF				
14		3.9 nF				
15		4.7 nF				



**P295 Series Metallized Impregnated Paper, 500 VAC Capacitance Range:** 470 to 4,700 pF • **Temperature Range:** -40°C to +115°C



Р	295	В	E	471	М	500	Α
Capacitor Class	Series	Lead Spacing (mm)	Size Code	Capacitance Code (pF)	Capacitance Tolerance	Rated Voltage (VAC)	Packaging
P = Paper	Y1, Metallized Paper	B = 15.0	See Dimension Table	First two digits represent significant figures. Third digit specifies number of zeros.	M = ±20%	500 = 500	See Ordering Options Table

	Voltage (VDC/VAC)				
Case Size	1,500/500				
15 - 18 x 12.5 x 5.5	0.47 nF - 1 nF				
15 - 18 x 12.5 x 6.5	1.2 nF – 2.2 nF				
15 - 18 x 14.5 x 7.5	2.5 nF – 3.3 nF				
15 – 18 x 16 x 8.5	3.9 nF - 4.7 nF				



**P295 Series Metallized Impregnated Paper, 500 VAC Capacitance Range:** 470 to 4,700 pF • **Temperature Range:** -40°C to +115°C



Р	295	В	E	471	М	500	Α
Capacitor Class	Series	Lead Spacing (mm)	Size Code	Capacitance Code (pF)	Capacitance Tolerance	Rated Voltage (VAC)	Packaging
P = Paper	Y1, Metallized Paper	B = 15.0	See Dimension Table	First two digits represent significant figures. Third digit specifies number of zeros.	M = ±20%	500 = 500	See Ordering Options Table

	Voltage (VDC/VAC)				
Case Size	1,500/500				
15 - 18 x 12.5 x 5.5	0.47 nF - 1 nF				
15 - 18 x 12.5 x 6.5	1.2 nF – 2.2 nF				
15 – 18 x 14.5 x 7.5	2.5 nF – 3.3 nF				
15 – 18 x 16 x 8.5	3.9 nF - 4.7 nF				





## Y2 Class

#### SMP253 Series Metallized Impregnated Paper, 250 VAC

Capacitance Range: 1,000 to 4,700 pF • Temperature Range: -40°C to +100°C

#### Legacy Part Number System



SMP253	Μ	Α	4100	Μ	TR24
Series	Rated Voltage (VAC)	Chip Length (mm)	Capacitance Code (pF)	Capacitance Tolerance	Packaging
Y2, Metallized Paper	M = 250	A = 12.7	The last three digits represent significant figures. The first digit specifies the total number of digits.	M = ±20%	See Ordering Options Table

Р	101	AA	102	Μ	250	V
Capacitor Class	Series	Chip Size	Capacitance Code (pF)	Capacitance Tolerance	Rated Voltage (VAC)	Packaging
P = Paper	Y2, Metallized Paper	See Dimension Table	First two digits represent significant figures. Third digit specifies number of zeros.	M = ±20%	250 = 250	See Ordering Options Table

Coop Size	Voltage (VDC/VAC)			
Case Size	250/250			
5045	1 nF - 4.7 nF			



## **900 Series, Radial Disc, Encapsulated, AC Type, X1 400 VAC/Y2 250 VAC (Industrial Grade) Capacitance Range:** 2 pF to 10,000 pF • **Temperature Range:** -40°C to +125°C



C9	1	1	U	620	J	U	S	D	Α	Α	7317
Ceramic Series	Body Diameter	Lead Spacing <sup>1</sup>	Spec.	Capacitance Code (pF)	Capacitance Tolerance	Rated Voltage	Dielectric/ Temp. Char.	Design	Lead Config. <sup>2</sup>	Failure Rate	Packaging (C-Spec)
C9 = Ceramic 900 Series	0 = 7.0 mm 1 = 8.0 mm 2 = 9.0 mm 3 = 10.0 mm 4 = 11.0 mm 5 = 12.0 mm 7 = 14.0 mm	1 = 10.0 mm	U = Safety	Two significant digits and number of zeroes	J = ±5% K = ±10% M = ±10%	U = X1 400 VAC /Y1 250 VAC	S = SL Y = Y5P W = Y5U V = Y5V	D = Disc	A = Straight B = Vertical Kink C = Outside Kink	A = N/A	See "Packaging C-Spec Ordering Options Table"

Case Size	Voltage							
Case Size	Y5V	SL	Y5P	Y5U				
7	1 nF	15 pF – 39 pF	100 pF – 330 pF					
8	1.5 nF	47 pF – 62 pF	470 pF	1 nF				
9	2.2 nF	68 pF – 82 pF	560 pF - 680 pF	1.5 nF				
10		100 pF		2.2 nF				
11	3.3 nF		1 nF					
12	4.7 nF			3.3 nF				
13				3.9 nF				
14				4.7 nF				



## Y2 Class (cont.)

ERO610 Series, Radial AC Type, X1 440 VAC/Y2 250 VAC Capacitance Range: 1,000 pF to 12,000 pF • Temperature Range: -40°C to +125°C



ER0610	Т	102	М	CF0
Ceramic Series	Voltage Rating (Safety Subclass Rating)	Capacitance Code (pF)	Capacitance Tolerance	Lead configuration / Packaging Code
ER0610	T = X1 440 VAC/Y2 250 VAC	Two significant digits andw Number of zeroes	M = ±20%	*See Packaging Options

Case Size	Voltage
	Y5U
6.5	1 nF
8	1.5 nF – 1.8 nF
9	2.2 nF - 2.5 nF
10	3.3 nF
12	4.7 nF – 5 nF
17	6.8 nF - 8.2 nF
21	0.01 μF - 0.012 μF



## **KJY Series, Y5P, Y5U & Y5V Dielectric, Y2 250 VAC/X1 400 VAC Capacitance Range:** 100 pF to 10,000 pF • **Temperature Range:** -25°C to +125°C



KJY	102	М	R	31		F	Α
Series	Capacitance Code (pF)	Capacitance Tolerance	Rated Voltage	Size (mm)		Lead Spacing (mm)	Temperature Code
	Two significant digits and number of zeros	K = ±10% M = ±20%	R = 400 VAC/X1, 250 VAC/Y2	28 = 7 31 = 8 35 = 9 39 = 10 43 = 11 47 = 12 51 = 13	55 = 14 59 = 15 63 = 16 67 = 17 71 = 18 79 = 20 87 = 22	F = 10 G = 12.5	A = Y5U or better B = Y5V G = Y5P

Case Size	Voltage							
Gase 312e	Y5V	Y5P	Y5U					
8	1 nF - 1.5 nF	100 pF – 470 pF	1 nF					
9	2.2 nF	560 pF – 680 pF	1.5 nF					
10	3.3 nF	1 nF	2.2 nF					
11	3.9 nF		2.5 nF					
12	4.7 nF		3.3 nF					
13			3.9 nF					
14			4.7 nF					
16	0.01 µF							



## Y2 Class (cont.)

## **PME271Y Series Metallized Impregnated Paper, 250 VAC Capacitance Range:** 0.001 to 0.1 µF • **Temperature Range:** -40°C to +100°C



## Legacy Part Number System

PME271	Y	410	Μ	R30
Series	Rated Voltage (VAC)	Capacitance Code (pF)	Capacitance Tolerance	Packaging
Y2, Metallized Paper	Y = 250	The last two digits represent significant figures. The first digit specifies the total number of digits.	M = ±20%	See Ordering Options Table

Р	271	H	E	102	М	250	Α
Capacitor Class	Series	Lead Spacing (mm)	Size Code	Capacitance Code (pF)	Capacitance Tolerance	Rated Voltage (VAC)	Lead and Packaging Code
P = Paper	Y2, Metallized Paper	H = 10.2 Q = 15.2 C = 20.3 E = 25.4	See Dimension Table	First two digits represent significant figures. Third digit specifies number of zeros.	M = ±20%	250 = 250	See Ordering Options Table

Coop Sizo	Voltage (VDC/VAC)
Case Size	1,000/250
10.2 - 13.5 x 10.5 x 5.1	4.7 nF
10.2 - 13.5 x 7.5 x 3.9	1 nF - 2.2 nF
10.2 - 13.5 x 8.2 x 4.1	3.3 nF
15.2 - 18.5 x 10.5 x 5.2	6.8 nF - 10 nF
15.2 – 18.5 x 11 x 5.5	15 nF
15.2 - 18.5 x 13 x 7.3	22 nF
20.3 – 24 x 14 x 7.6	33 nF
20.3 – 24 x 15 x 9	47 nF
20.3 – 24 x 16.5 x 11.3	68 nF
25.4 - 30.5 x 19 x 12.1	100 nF



## **900 Series, Radial Disc, Encapsulated, AC Type, X1 440 VAC/Y2 300 VAC (Industrial Grade) Capacitance Range:** 2 pF to 10,000 pF • **Temperature Range:** -40°C to +125°C



C9	7	1	U	472	М	Z	W	D	Α	Α	7317
Ceramic Series	Body Diameter	Lead Spacing <sup>1,2,4</sup>	Spec.	Capacitance Code (pF)	Capacitance Tolerance	Rated Voltage	Dielectric/ Temp. Char.	Design	Lead Config. <sup>1,3,4</sup>	Failure Rate	Packaging (C-Spec)
C9 = Ceramic 900 Series	0 = 7.0 mm 1 = 8.0 mm 2 = 9.0 mm 3 = 10.0 mm 4 = 11.0 mm 6 = 13.0 mm 8 = 15.0 mm	7 = 7.5 mm 1 = 10.0 mm	U = Safety	Two significant digits and number of zeroes	J = ±5% K = ±10% M = ±20%	Z = X1 440 VAC /Y2 300 VAC	S = SL Y = Y5P W = Y5U V = Y5V	D = Disc	A = Straight B = Vertical Kink C = Outside Kink D = Inside Kink	A = N/A	See "Packaging C-Spec Ordering Options Table"

Case Size	Voltage								
	Y5V	SL	Y5P	Y5U					
7	1 nF - 2.2 nF	10 pF – 51 pF	100 pF – 470 pF	1 nF					
8		56 pF – 75 pF	560 pF - 680 pF						
9	3.3 nF	82 pF	820 pF – 1 nF	1.5 nF – 2.2 nF					
10		100 pF							
11	3.9 nF - 4.7 nF			3.3 nF					
13	6.8 nF			3.9 nF - 4.7 nF					
15	0.01 µF								



## F881 Series, Halogen Free, Metallized Polypropylene, 300 VAC Capacitance Range: 0.01 to 1.0 $\mu$ F • Temperature Range: -40°C to +110°C



F	881	В	С	103	М	300	С
Capacitor Class	Series	Lead Spacing (mm)	Size Code	Capacitance Code (pF)	Capacitance Tolerance	Voltage (VAC)	Packaging
F = Film	Y2, Metallized Polypropylene	K = 7.5 A = 10 B = 15 D = 22.5 F = 27.5 R = 37.5	See Dimension Table	First two digits represent significant figures. Third digit specifies number of zeros.	K = ±10% M = ±20%	300	See Ordering Options Table

Coop Size	Voltage (VDC/VAC)		Coop Size	Voltage (VDC/VAC)	
Case Size	1,000/300		Case Size	1,000/300	
7.5 – 10 x 10.5 x 5	2.5 nF - 3.9 nF		22.5 – 26 x 16 x 7	56 nF - 82 nF	
7.5 – 10 x 8 x 3	1 nF		22.5 – 26 x 16 x 8	82 nF - 100 nF	
7.5 – 10 x 8 x 4	1.2 nF - 1.5 nF		22.5 – 26 x 17 x 8.5	100 nF - 120 nF	
7.5 – 10 x 9 x 4	1.8 nF - 2.2 nF		22.5 – 26 x 18.5 x 10	150 nF	
7.5 – 10.5 x 12 x 6	3.9 nF - 5.6 nF		22.5 – 26 x 18.5 x 9	120 nF	
10 – 13 x 11 x 5	3.3 nF - 4.7 nF		22.5 – 26 x 20 x 11	180 nF - 220 nF	
10 - 13 x 12 x 6	5.6 nF - 6.8 nF		22.5 – 26 x 22 x 13	220 nF - 270 nF	
10 – 13 x 17 x 7	8.2 nF – 10 nF		22.5 – 26 x 24.5 x 15.5	330 nF – 390 nF	
10 - 13 x 7.5 x 9.5	1.8 nF - 6.8 nF		27.5 – 31.5 x 12.5 x 21	220 nF - 330 nF	
10 - 13 x 8 x 4	1 nF - 2.2 nF		27.5 – 31.5 x 16 x 27.5	390 nF – 470 nF	
10 – 13 x 9 x 4	2.5 nF - 2.7 nF		27.5 – 31.5 x 17 x 9	100 nF - 150 nF	
15 – 18 x 10 x 4	2.7 nF - 10 nF		27.5 – 31.5 x 19 x 31	560 nF – 820 nF	
15 – 18 x 11 x 5	10 nF – 15 nF		27.5 – 31.5 x 20 x 11	180 nF – 270 nF	
15 – 18 x 12 x 13	25 nF - 56 nF		27.5 – 31.5 x 25 x 13	270 nF – 390 nF	
15 – 18 x 12 x 6	22 nF		27.5 – 31.5 x 28 x 14	560 nF	
15 - 18 x 12.5 x 5.5	15 nF – 18 nF		27.5 – 31.5 x 28 x 17.5	470 nF - 680 nF	
15 – 18 x 12.5 x 9	15 nF – 39 nF		27.5 – 31.5 x 37 x 22	820 nF – 1 μF	
15 – 18 x 13.5 x 7.5	25 nF – 27 nF		27.5 – 31.5 x 40 x 17	680 nF - 820 nF	
15 - 18 x 14.5 x 8.5	39 nF - 47 nF		37.5 – 41 x 15 x 24	470 nF – 560 nF	
15 – 18 x 16 x 10	47 nF - 56 nF		37.5 – 41 x 19 x 24	680 nF – 1 μF	
15 – 18 x 17.5 x 6	25 nF - 39 nF		37.5 – 41 x 22 x 11	330 nF – 390 nF	
15 – 18 x 18.5 x 7.5	33 nF - 56 nF	1	37.5 – 41 x 24 x 13	470 nF	
15 - 18 x 19 x 11	68 nF - 82 nF		37.5 – 41 x 26 x 15	560 nF - 820 nF	
15 - 18 x 20 x 12	82 nF		37.5 - 41 x 32 x 19	1 µF	
22 5 - 26 x 14 5 x 6	39 nF - 56 nF	1			



## **PME271Y A–E Series Metallized Impregnated Paper, 300 VAC Capacitance Range:** 0.001 to 0.15 μF • **Temperature Range:** -40°C to +115°C

## Legacy Part Number System



PME271	Y	Α	4100	М	R30
Series	Rated Voltage (VAC)	Lead Spacing (mm)	Capacitance Code (pF)	Capacitance Tolerance	Packaging
Y2, Metallized Paper	Y = 300	A = 10.2 B = 15.2 C = 20.3 D = 22.5 E = 25.4	The last three digits represent significant figures. The first digit specifies the total number of digits.	M = ±20% (for C ≤ 0.1 μF) K = ±10% (for C > 0.1 μF)	See Ordering Options Table

Р	272	Н	E	102	Μ	300	Α
Capacitor Class	Series	Lead Spacing (mm)	Size Code	Capacitance Code (pF)	Capacitance Tolerance	Rated Voltage (VAC)	Packaging
P = Paper	Y2, Metallized Paper	H = 10.2 Q = 15.2 C = 20.3 D = 22.5 E = 25.4	See Dimension Table	First two digits represent significant figures. Third digit specifies number of zeros.	$\label{eq:Karabase} \begin{array}{l} M = \pm 20\% \mbox{ (for } C \le 0.1  \mu F) \\ K = \pm 10\% \mbox{ (for } C > 0.1  \mu F) \end{array}$	300 = 300	See Ordering Options Table

	Voltage (VDC/VAC)
Case Size	1,000/300
10.2 - 13.5 x 10.5 x 5.1	4.7 nF
10.2 - 13.5 x 7.5 x 3.9	1 nF - 2.2 nF
10.2 - 13.5 x 8.2 x 4.1	2.5 nF – 3.3 nF
15.2 - 18.5 x 10.5 x 5.2	6.8 nF - 10 nF
15.2 – 18.5 x 11 x 5.5	15 nF
15.2 - 18.5 x 13 x 7.3	22 nF
20.3 – 24 x 14 x 7.6	33 nF
20.3 – 24 x 15 x 9	47 nF
20.3 – 24 x 16.5 x 11.3	68 nF
25.4 - 30.5 x 19 x 12.1	100 nF
25.4 - 30.5 x 22 x 15.3	150 nF



## R41 Series, Metallized Polypropylene, 300 VAC (Automotive Grade) Capacitance Range: 0.001 to 1 $\mu$ F • Temperature Range: -40°C to +110°C



R41	3	I	2330	00	M1	Μ
Series	Rated Voltage (VAC)	Lead Spacing (mm)	Capacitance Code (pF)	Packaging	Internal Use	Capacitance Tolerance
Y2, Metallized Polypropylene	3 = 300	F = 10.0 I = 15.0 N = 22.5 R = 27.5 W = 37.5	The last three digits represent significant figures. The first digit specifies number of zeros to be added.	See Ordering Options Table	00 M1	K = ±10% M = ±20%

	Voltage (VDC/VAC)			
Case Size	300 VAC	1,000/300		
10 – 13 x 11 x 5		4.7 nF		
10 - 13 x 12 x 6		6.8 nF		
10 - 13 x 9 x 4		1 nF – 3.3 nF		
15 – 18 x 11 x 5		3.3 nF – 15 nF		
15 – 18 x 12 x 6		22 nF		
15 - 18 x 14.5 x 8.5		47 nF		
15 – 18 x 19 x 11		68 nF		
15 – 18 x 13.5 x 7.5	33 nF			
22.5 - 26.5 x 15 x 6		47 nF – 68 nF		
22.5 - 26.5 x 16 x 7		68 nF		
22.5 - 26.5 x 17 x 8.5		100 nF		
22.5 - 26.5 x 18.5 x 10		150 nF		
22.5 – 26.5 x 22 x 13	220 nF	220 nF		
27.5 – 32 x 22 x 13		220 nF		
27.5 – 32 x 28 x 14	330 nF	330 nF		
27.5 – 32 x 33 x 18	470 nF - 680 nF	470 nF - 680 nF		
37.5 - 41.5 x 24 x 13		470 nF		
37.5 - 41.5 x 28.5 x 16		680 nF		
37.5 - 41.5 x 40 x 20		1 μF		



## ERK610 Series, Radial AC Type, X1 440 VAC/Y2 300 VAC Capacitance Range: 33 pF to 4,700 pF • Temperature Range: -40°C to +125°C



ERK610	Z	102	K	CF0
Ceramic Series	Voltage Rating (Safety Subclass Rating)	Capacitance Code (pF)	Capacitance Tolerance	Lead configuration/ Packaging Code
ERK610	Z = X1 440 VAC/Y2 300 VAC	Two significant digits and Number of zeroes	K = ±10% M = ±20%	*See Packaging Options

Coop Size	Voltage						
Case Size	U2J	Y5S	Y5T	Y5U			
7				1 nF			
8	33 pF – 47 pF	68 pF – 100 pF	150 pF – 330 pF	470 pF – 1.5 nF			
9				680 pF			
10				2.2 nF			
12				3.3 nF			
13.5				3.9 nF - 4.7 nF			



## Y2 Class (cont.)

## ERP610 Series, Radial AC Type, X1 760 VAC/Y2 500 VAC Capacitance Range: 33 pF to 4,700 pF • Temperature Range: -40°C to +125°C



ERP610	W	102	М	DF0
Ceramic Series	Voltage Rating (Safety Subclass Rating)	Capacitance Code (pF)	Capacitance Tolerance	Lead configuration / Packaging Code
ERP610	W = X1 760 VAC/Y1 500 VAC	Two significant digits and Number of zeroes	K = ±10% M = ±20%	*See Packaging Options

Coop Size	Voltage						
Case Size	U2J	Y5S	Y5T	Y5U			
8	33 pF	47 pF – 100 pF	150 pF – 220 pF	330 pF – 680 pF			
9				1 nF			
10				1.5 nF			
12				2.2 nF			
13				2.7 nF			
15				3.3 nF - 3.9 nF			
17				4.7 nF			

# Multiple X & Y





## Multiple X & Y

#### PMZ2074 Series Metallized Impregnated Paper, 275 VAC 2x X2 with One Common Terminal

Capacitance Range: 0.15 μF + 0.033 μF, 0.15 μF + 0.047 μF, 0.15 μF + 0.068 μF, 0.22 μF + 0.082 μF, 0.22 μF + 0.1 μF

#### Temperature Range: -40°C to +110°C





PMZ2074	М	C	615	М	533	М	R30
Series	Rated Voltage (VAC)	Lead Spacing (mm)	Capacitance Code (pF)	Capacitance Tolerance	Capacitance Code (pF)	Internal Use	Packaging
Double Capacitor X2, Metallized Paper	M = 275	C = 20.3	The last two digits represent significant figures. The first digit specifies the total number of digits.	K = ±10% M = ±20%	The last two digits represent significant figures. The first digit specifies the total number of digits.	M (Standard)	See Ordering Options Table

Р	374	C	L	154	М	275	Α	C333
Capacitor Class	Series	Lead Spacing (mm)	Size Code	X Capacitance Code (pF)	Capacitance Tolerance	Rated Voltage (VAC)	Packaging	Y Capacitance Code
P = Paper	Double Capacitor X2, Metallized Paper	C = 20.3	See Dimension Table	First two digits indicate the two most significant digits of the capacitance value in picofarads. The third digit is the number of following zeros.	M = ±20%	275 = 275	See Ordering Options Table	C plus first two digits represent significant figures. Third digit specifies number of zeros.

Coop Sizo	Voltage (VDC/VAC)		
Case Size	630/275		
20.3 – 24 x 16 x 12.5	150 nF		
20.3 – 24 x 18 x 14	220 nF		



## Multiple X & Y (cont.)

**PZB300 Series Metallized Impregnated Paper, 275 VAC Delta Configuration X2 + 2x Y2 Capacitance Range:** X Value 0.1 μF and 0.15 μF, Y Value 0.0022 μF, 0.0033 μF and 0.0047 μF • **Temperature Range:** -40°C to +100°C

## Legacy Part Number System

PZB300	М	C	11	R30
Series	Rated Voltage (VAC)	Lead Spacing (mm)	Capacitance Code (pF)	Packaging
Delta EMI, X2 + 2x Y2, Metallized Paper	M = 275	C = 20.0	The first digit indicates the value of the X capacitor: 1 = 0.10 $\mu$ F 2 = 0.15 $\mu$ F The second digit indicates the value of the Y capacitor: 1 = 0.0022 $\mu$ F 2 = 0.0033 $\mu$ F 3 = 0.0047 $\mu$ F	See Ordering Options Table

			-					
Р	300	Р	L	104	М	275	Α	C222
Capacitor Class	Series	Lead Spacing (mm)	Size Code	X Capacitance Code (pF)	Capacitance Tolerance	Rated Voltage (VAC)	Packaging	Y Capacitance Code
P = Paper	Delta EMI, X2 + 2x Y2, Metallized Paper	P = 20	See Dimension Table	First two digits indicate the two most significant digits of the capacitance value in picofarads. The third digit is the number of following zeros.	M = ±20%	275 = 275	See Ordering Options Table	C plus first two digits represent significant figures. Third digit specifies number of zeros.

	Voltage	
Case Size	275 VAC	
20 - 24 x 16 x 12.5	100 nF - 150 nF	



## Multiple X & Y (cont.)

PHZ9004 Series Metallized Polypropylene Film, 300 VAC 3x X2 with Separate Terminals for Three-Phase Filtering Capacitance Range: 3 x 1.0 μF • Temperature Range: -55°C to +105°C

## Legacy Part Number System



PHZ9004	E	F	7100	М	R06L2
Series	Rated Voltage (VAC)	Lead Spacing (mm)	Capacitance Code (pF)	Capacitance Tolerance	Packaging
Triple Capacitor X2, Metallized Polypropylene	E = 300	F = 27.5	The last three digits represent significant figures. The first digit specifies the total number of digits	M = ±20%	See Ordering Options Table

9004	AA	105	М	300	С	DECT	V680
Capacitor Class	Size Code	Capacitance Code (pF)	Capacitance Tolerance	Rated Voltage (VAC)	Packaging	C-Spec	V-Spec
Triple Capacitor X2, Metallized Polypropylene	See Dimension Table	First two digits represent significant figures. Third digit specifies number of zeros.	M = ±20%	300 = 300	See Ordering Options Table	Optional additional characters at KEMET's option.	Part Number specific version code

Casa Siza	Voltage		
Case Size	300 VAC		
27.5 - 64 x 11.5 x 30	1 μF		

# **Related Products**

## **Related Products**



## **AC Line Filters**

### Features & Benefits

- Industry's highest standard, high-permeability core results in a high degree of characterization
- Optimized design for compact size, low profile and light weight
- Split and non-split bobbin design for strong inductance/impedance/frequency characteristics
- · Different form factors available

## **Product Checklist**

- What is the type of choke is required, common or normal mode?
- What is the material and shape of the core?
- What is the rated current (A)?
- What is the inductance value (mH)?
- What is the DC resistance (m $\Omega)?$
- What is the wire diameter value?
- What is the operating temperature range?
- What is the maximum temperature rise?What is the mounting type, vertical
- or horizontal?

## Applications

Common mode chokes for the following applications. Normal mode and HF chokes are non-standard and available by request only:

- · Audio-visual equipment
- Office automation equipment
- Digital appliances
- · Power supply devices
- Power conditioners
- Air conditioners

## **Ordering Information**

Series	Rated Current (A)	Inductance (mH)	Туре
SC	02	101	хх
	02 = 2.0	100 = 1.0	









## **Related Products**

## AC Line Filters (cont.)

## **Electrical/Physical Characteristics**

Mode	Series	Core Material	Core Shape	Rated Current (A)	Inductance (mH)	DC Resistance (mΩ)
Common	SC Standard	MnZn	Toroidal	2 – 30	1 – 8	6 – 110
Common	SCR	MnZn	Toroidal	2 – 5	7 – 35	47 – 200
Common	SC-J	MnZn	Toroidal	2 – 18	0.5 – 8	7 – 120
Common	SC-GJ	MnZn	Toroidal	2 – 3	0.6 – 3	100 – 300
Common	SC-JV	MnZn	Toroidal	2 – 5	15 – 44	100 – 300
Common	SC-JS	MnZn	Toroidal	2 – 3	0.8 – 1.5	80 – 120
Common	SC-JH	MnZn	Toroidal	10 – 20	1 – 2	8 – 22
Common	SC-G/GS	MnZn	Toroidal	1 – 3	0.5 – 15	30 – 450
Common	SCF	Nanocrystalline	Toroidal	1.1 – 5	3.5 – 50	35 – 390
Common	SC-D	NiZn	Toroidal	2 – 20	0.01 – 0.1	8 – 70
Common	SU 7 VC	MnZn	UU	0.2 – 1.2	0.25 – 12	160 — 6,500
Common	SU 10 VFC-R	MnZn	UU	0.3 – 2	1 – 37	150 – 4,200
Common	SU 9 V/9 H	MnZn	UU	0.1 – 1	0.5 – 10	300 – 8,000
Common	SU 9 V/9 H-R	MnZn	UU	0.1 – 1	0.8 – 18	300 – 8,000
Common	SU 9 VF/9 HF	MnZn	UU	0.2 – 0.7	1.5 – 10	440 — 4,000
Common	SU 9 VD	NiZn	UU	0.7	0.01 – 0.04	100 – 180
Common	SU 10 VD	NiZn	UU	1 – 2	0.01 – 0.08	100 – 200
Common	SU 16 VD	NiZn	UU	3 – 4	0.01 – 0.05	40 - 80
Common	SS 11 VL	MnZn	Rectangular	0.3 – 3	-	-
Common	SS 11 V-CH/H-CH	MnZn	Rectangular	0.3 – 3	0.6 – 55	63 - 4,100
Common	SS 20 H	MnZn	Rectangular	0.3 – 2	1.8 – 51	110 – 3,200
Common	SS 21 V	MnZn	Rectangular	0.3 – 3	0.8 – 93	70 – 5,900
Common	SS 24 V-CH/H-CH	MnZn	Rectangular	0.5 – 2	2.5 – 35	170 – 1,750
Common	SS 26 V	MnZn	Rectangular	0.5 – 3	2.8 – 88	100 – 2,400
Common	SS 28 V-CH/28 H-CH	MnZn	Rectangular	0.8 – 2.5	4.5 – 35	160 — 9,50
Common	SS 30 V	MnZn	Rectangular	0.8 - 4.5	1.3 – 73	60 – 1,500
Common	SS 35 V/35 H	MnZn	Rectangular	1.5 – 4.5	2.2 – 30	60 – 480
Common	SS 38 V	MnZn	Rectangular	3.5 – 4.3	3.8 – 7.3	110 – 150
Common	SS 11 VL-R	MnZn	Rectangular	0.3 – 3	0.9 – 82	60 - 4,100
Common	SS 17 HB	MnZn	Rectangular	0.3 – 1.7	0.8 – 30	120 – 2,600
Common	SS 17 VA/HA	MnZn	Rectangular	0.3 – 1.7	0.5 – 20	120 – 2,600
Common	SS 11 V/H-R-CH	MnZn	Rectangular	0.3 – 3	0.9 – 82	63 – 4,100
Common	SS 20 H-R	MnZn	Rectangular	0.3 – 2	2.3 – 66	110 – 3,200
Common	SS 21 V-R	MnZn	Rectangular	0.3 – 3	1.3 – 138	70 – 5,900
Common	SS 24 V-K-CH/24 H-K-CH	MnZn	Rectangular	0.5 – 2	4 – 57	170 – 1,750
Common	SS 24 V-R-CH/24 H-R-CH	MnZn	Rectangular	0.5 – 2	4.5 – 60	170 – 1,750
Common	SS 26 V-R	MnZn	Rectangular	0.5 – 3	3.8 – 117	100 – 2,400
Common	SS 28 V-K-CH/28 H-K-CH	MnZn	Rectangular	0.8 – 2.5	7.5 – 53	160 – 950
Common	SS 28 V-R-CH/28 H-R-CH	MnZn	Rectangular	0.8 – 2.5	8 – 60	160 – 950
Common	SS 30 V-R	MnZn	Rectangular	0.8 – 4.5	1.7 – 96	60 – 1,500
Common	SSB 11 V/H-R	MnZn	Rectangular	1.3 – 1.7	4.3 – 9	180 – 380
Common	SSB 28 V/28 H	MnZn	Rectangular	0.8 – 2.5	4.5 – 35	160 – 950
Common	SSB 28 V-R/28 H-R	MnZn	Rectangular	0.8 – 2.5	8 - 60	160 – 950
Common	SHB	Sendust	Toroidal	2 – 30	0.044 – 1.64	7 – 450
# **Related Products**



# **EMI Cores**

#### Features & Benefits

- Flat, round and snail versions
- Split versions for post-production attachment
- Broad range by simply adding turns

#### **Product Checklist**

- What frequency range is the target, AM or FM?
- What kind of cables are being used?
- Do you worry about damage to cable covering and insulation?
- Would you like to retrofit the core?
- When do you want to fix the core?



- FM frequency in MHz range filtering with NiZn
- AM frequency in kHz range filtering with MnZn
- According EMI standards IEC, CISPR, ECE and regional FCC, EN, VCCI



## **Electrical/Physical Characteristics**

Product Family			Series Name	Family	Material	Outer Diameter (mm)	Inner Diameter (mm)	Height (mm)
Solid	For Round Cables	Bare type	Toroidal Cores	ESD-R	MnZn & NiZn	9.5 – 38.1	5.0 – 19.0	3.0 – 28.5
		Coated type	Toroidal Cores	ESD-R	MnZn & NiZn	12.0 – 32.0	6.2 – 19.0	3.0 – 28.8
		With case	Toroidal Cores	ESD-R	MnZn & NiZn	12.9 – 61.0	6.0 – 32.4	6.4 – 24.0
		With snail- shaped case	Toroidal Cores	ESD-R-B	MnZn & NiZn	21.5 – 51.5	8.8 – 25.5	13.0 – 17.5
		With high heat resistance & cable holding mechanism	Toroidal Cores	ESD-R-H	MnZn	52.5	22.7	8.5
	For Flat Cables	Bare type	Solid Cores	ESD-FPL	NiZn	14.5 – 80.0	0.55 – 2.2	2.75 – 12.0
Split	For Round Cables	With case	Snap-on Cores	ESD-SR	NiZn		Ø6 – Ø14.5	
		With high heat resistance & cable holding mechanism	Snap-on Cores for Round Cables	ESD-SR-H	NiZn		Ø9 – Ø13	
	For Flat Cables	With metal clamp	Split Cores	ESD-FPD	NiZn	37.0 – 80.0	2.0 – 2.6	10
		With plastic	Split Cores	ESD-FPD-1	NiZn	37.0 – 80.0	2.0 – 2.6	10
Bead	Bead Single piece core		Bead Cores	B-20	MnZn & NiZn	2.8 – 9.7	0.8 - 4.8	1.2 – 8.0





# **Related Products**

# Flex Suppressor® Sheets

#### Features & Benefits

- Halogen-free
- Reduced service hours with high temperature
- High magnetic permeability
- Low magnetic loss (μ")
- Ultra-thin flexible sheet available on roll format
- Manufactured in a variety of shapes/sizes
- Ideal for use in portable equipment and a wide variety of applications
- Resonance suppression controls the high frequency current and suppresses unwanted electromagnetic resonance by creating impedance
- Suppresses the electromagnetic wave intruding the sheet by the magnetic loss of its composition
- Improves communication range of RFID

## Product Checklist

- Does your product require protection against EMI or noise interferences?
- Does your product require protection against ESD?
- Does your RFID product require shielding to improve signal transmission and receiving?



www.kemet.com/flexsuppressors

#### Applications

Flex suppressors are flexible, polymer sheets with micro-magnetic foils used to attenuate or suppress electromagnetic and radio frequency interferences (EMI/RFI) generated by electronic devices. It can also be used to improve signal transmissions and receptions.

Any type of electronic equipment or component exposed to noise radiation including:

- Computer
- Consumer
- Industrial
- Medical
- RFID
- Telecommunication
- Automotive
- Gaming & Entertainment

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#### **Electrical/Physical Characteristics**

Standard dimensions (mm)	$240 \times 240$
Effective frequency	Up to 10 GHz
Thickness (mm)	0.03, 0.05, 0.07, 0.1, 0.2, 0.3, 0.5, 1.0
Temperature range (°C )	-40 to +105
Specific gravity (in 23°C atmosphere)	2.8, 3.0, 3.1, 3.2, 3.6 (typ)
Tensile strength (MPa)	3.5, 3.6, 6.8, 6.9
Surface resistance (Ω)	$1.0 \times 10^5$ (minimum)
Thermal conductivity (W/m K)	0.22, 0.4, 1.3
Approved standard	UL94 V-0, UL94 V-1, UL94 HB, UL File No. E176124
Environment	RoHS compliant, halogen-free, PVC-free, lead-free
Relative magnetic permeability (at 3 MHz)	20, 60, 100, 130

#### **Ordering Information**

Series Type	Thickness (mm)	Standard Dimensions (mm)	Tape 1 Type Adhesive Tape Thickness (mm)	Таре 2 Туре
EFR	(01)	240 x 240	T08	00
EFR EFX EFF EFA EFH EFG	$\begin{array}{c} 003 = 0.03\\ 005 = 0.05\\ 007 = 0.07\\ 01 = 0.1\\ 02 = 0.2\\ 03 = 0.3\\ 05 = 0.5\\ 10 = 1.0\\ \end{array}$	240 x 240	$\begin{array}{l} T08 = 0.03 \\ T15 = 0.14 \\ T22 = 0.05 \\ Blank = No \mbox{ adhesive tape } \end{array}$	00 = Without PET tape





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Countries and Areas listed below represent KEMET operations throughout the world.

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