

Type: **PXK** - Radial leaded, Boxed Interference Suppressor Class X2 Capacitor

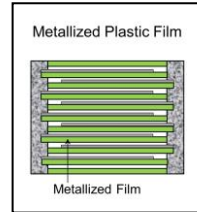


**Typical Applications:**

- Line-By-Pass
- Antenna coupling
- Across-the-line

**Attributes:**  
All Parameters are in accordance with

- UL
- CSA
- VDE
- ENEC
- CQC



**Specifications**

**Construction:** Polypropylene dielectric.  
Wound, extended metallized film construction.  
Electrode: Metallized film

**Enclosure:** UL 94 V-0 Flame retardant enclosure.

**Lead Wire:** Copper-clad steel core wire electroplated with 100% Tin.

**Capacitance:** 0.010 to 4.7  $\mu\text{F}$   $\pm 10\%$  (K)

**Rated Voltage:** 275 VAC, 305 VAC

**DF:**  $\leq 0.1\%$  @ 20°C  $\pm 3^\circ\text{C}$ , 1KHz

**I.R.:** C < 0.33 $\mu\text{F}$ , R  $\geq 30,000$  MegOhms @ 20 $\pm 3^\circ\text{C}$   
C  $\geq 0.33\mu\text{F}$ , RC  $\geq 10,000$  MegOhms x  $\mu\text{F}$ s

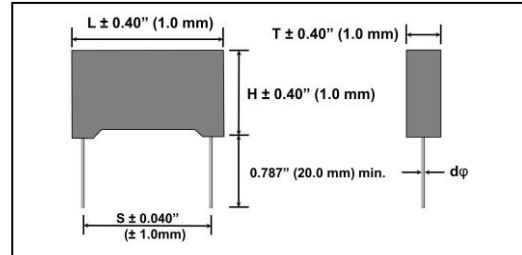
**Dielectric Strength:** 1183VDC for 1 minute max.

**Temp Range:** -40°C to 110°C

**T.C.:** -220  $\pm 110$  ppm / °C, -40°C to +85°C

**Marking:** Type, Logo, agency approvals, capacitance code, tolerance code and working voltage.

**Packaging:** Bulk packed.



Dimensions in Inches (mm)					
L	0.512 (13.0)	0.709 (18.0)	1.044 (26.5)	1.260 (32.0)	1.634 (41.5)
S	0.394 (10.0)	0.591 (15.0)	0.886 (22.5)	1.083 (27.5)	1.477 (37.5)
dφ	0.024 (0.6)	0.032 (0.8)	0.032 (0.8)	0.032 (0.8)	0.040 (1.0)

Maximum Pulse Rise Time (dv/dt) V/μSec					
S Dimension in Inches (mm)					
0.394 (10.0)	0.591 (15.0)	0.886 (22.5)	1.083 (27.5)	1.477 (37.5)	
400	300	180	120	70	



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**Accelerated Performance Testing**

**DC Life:** 1,000 Hours, 110°C, 1.25 x Rated VDC  
Limits:  $\Delta$  C/C  $\leq 10\%$ , IR  $\geq 50\%$  of initial limit,  
 $\Delta$  DF  $\leq 0.008$  for Cap  $\leq 1.0\mu\text{F}$   
 $\leq 0.005$  for Cap  $> 1.0\mu\text{F}$

**Moisture:** 40°C / 95% RH / 56 days  
Limits:  $\Delta$  C/C  $< 5\%$ , IR  $\geq 50\%$  of initial limit,  
 $\Delta$  DF  $\leq 0.008$  for Cap  $\leq 1.0\mu\text{F}$   
 $\leq 0.005$  for Cap  $> 1.0\mu\text{F}$

**Vibration:** IEC 60068-2-21

**275 VAC**

$\mu\text{F}$	L	T	H	S	Part Number
0.010	0.512 (13.0)	0.197 (05.0)	0.434 (11.0)	0.394 (10.0)	103K275PXK100
0.010	0.709 (18.0)	0.197 (05.0)	0.434 (11.0)	0.591 (15.0)	103K275PXK150
0.022	0.512 (13.0)	0.197 (05.0)	0.434 (11.0)	0.394 (10.0)	223K275PXK100
0.022	0.709 (18.0)	0.197 (05.0)	0.434 (11.0)	0.591 (15.0)	223K275PXK150
0.033	0.512 (13.0)	0.276 (07.0)	0.453 (11.5)	0.394 (10.0)	333K275PXK100
0.033	0.709 (18.0)	0.197 (05.0)	0.434 (11.0)	0.591 (15.0)	333K275PXK150
0.047	0.512 (13.0)	0.237 (06.0)	0.473 (12.0)	0.394 (10.0)	473K275PXK100
0.047	0.709 (18.0)	0.197 (05.0)	0.434 (11.0)	0.591 (15.0)	473K275PXK150
0.068	0.512 (13.0)	0.276 (07.0)	0.512 (13.0)	0.394 (10.0)	683K275PXK100
0.068	0.709 (18.0)	0.197 (05.0)	0.434 (11.0)	0.591 (15.0)	683K275PXK150
0.100	0.512 (13.0)	0.315 (08.0)	0.630 (16.0)	0.394 (10.0)	104K275PXK100
0.100	0.709 (18.0)	0.237 (06.0)	0.473 (12.0)	0.591 (15.0)	104K275PXK150
0.150	0.512 (13.0)	0.315 (08.0)	0.552 (14.0)	0.394 (10.0)	154K275PXK100
0.150	0.709 (18.0)	0.335 (08.5)	0.571 (14.5)	0.591 (15.0)	154K275PXK150
0.220	0.709 (18.0)	0.375 (09.5)	0.611 (15.5)	0.591 (15.0)	224K275PXK150
0.220	1.044 (26.5)	0.276 (07.0)	0.650 (16.5)	0.886 (22.5)	224K275PXK225
0.330	0.709 (18.0)	0.434 (11.0)	0.749 (19.0)	0.591 (15.0)	334K275PXK150
0.330	1.044 (26.5)	0.335 (08.5)	0.670 (17.0)	0.886 (22.5)	334K275PXK225

Dimensions in inches, metric (mm) in parenthesis.

**275 VAC Continued**

<b>µF</b>	<b>L</b>	<b>T</b>	<b>H</b>	<b>S</b>	<b>Part Number</b>
<b>0.470</b>	0.709 (18.0)	0.434 (11.0)	0.729 (18.5)	0.591 (15.0)	474K275PXXK150
<b>0.470</b>	1.044 (26.5)	0.394 (10.0)	0.749 (19.0)	0.886 (22.5)	474K275PXXK225
<b>0.470</b>	1.260 (32.0)	0.434 (11.0)	0.788 (20.0)	1.083 (27.5)	474K275PXXK275
<b>0.560</b>	0.709 (18.0)	0.434 (11.0)	0.749 (19.0)	0.591 (15.0)	564K275PXXK150
<b>0.560</b>	1.044 (26.5)	0.394 (10.0)	0.749 (19.0)	0.886 (22.5)	564K275PXXK225
<b>0.560</b>	1.260 (32.0)	0.434 (11.0)	0.788 (20.0)	1.083 (27.5)	564K275PXXK275
<b>0.680</b>	1.044 (26.5)	0.394 (10.0)	0.749 (19.0)	0.886 (22.5)	684K275PXXK225
<b>0.680</b>	1.260 (32.0)	0.434 (11.0)	0.788 (20.0)	1.083 (27.5)	684K275PXXK275
<b>1.000</b>	1.044 (26.5)	0.552 (14.0)	0.906 (23.0)	0.886 (22.5)	105K275PXXK225
<b>1.000</b>	1.260 (32.0)	0.630 (16.0)	0.985 (25.0)	0.886 (22.5)	105K275PXXK275
<b>1.500</b>	1.044 (26.5)	0.512 (13.0)	0.906 (23.0)	0.886 (22.5)	155K275PXXK225
<b>1.500</b>	1.260 (32.0)	0.591 (15.0)	0.965 (24.5)	1.083 (27.5)	155K275PXXK275
<b>2.200</b>	1.260 (32.0)	0.591 (15.0)	1.182 (30.0)	1.083 (27.5)	225K275PXXK275
<b>3.300</b>	1.260 (32.0)	0.709 (18.0)	1.103 (28.0)	1.083 (27.5)	335K275PXXK275
<b>4.700</b>	1.634 (41.5)	0.945 (24.0)	1.237 (31.4)	1.477 (37.5)	475K275PXXK375

Dimensions in inches, metric (mm) in parenthesis.

**305 VAC**

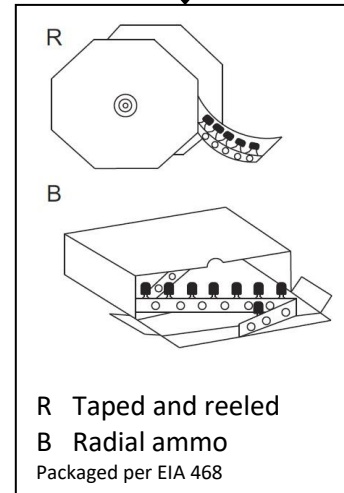
<b>µF</b>	<b>L</b>	<b>T</b>	<b>H</b>	<b>S</b>	<b>Part Number</b>
<b>0.010</b>	0.512 (13.0)	0.157 (4.0)	0.354 (9.0)	0.394 (10.0)	103K305PXXK100
<b>0.022</b>	0.512 (13.0)	0.157 (4.0)	0.354 (9.0)	0.394 (10.0)	223K305PXXK100
<b>0.033</b>	0.512 (13.0)	0.157 (4.0)	0.354 (9.0)	0.394 (10.0)	333K305PXXK100
<b>0.047</b>	0.512 (13.0)	0.236 (6.0)	0.472 (12.0)	0.394 (10.0)	473K305PXXK100
<b>0.068</b>	0.512 (13.0)	0.197 (5.0)	0.433 (11.0)	0.394 (10.0)	683K305PXXK100
<b>0.068</b>	0.709 (18.0)	0.197 (5.0)	0.433 (11.0)	0.591 (15.0)	683K305PXXK150
<b>0.10</b>	0.512 (13.0)	0.236 (6.0)	0.472 (12.0)	0.394 (10.0)	104K305PXXK100
<b>0.10</b>	0.709 (18.0)	0.197 (5.0)	0.433 (11.0)	0.591 (15.0)	104K305PXXK150
<b>0.15</b>	0.512 (13.0)	0.315 (8.0)	0.551 (14.0)	0.394 (10.0)	154K305PXXK100
<b>0.15</b>	0.709 (18.0)	0.295 (7.5)	0.531 (13.5)	0.591 (15.0)	154K305PXXK150
<b>0.22</b>	0.709 (18.0)	0.295 (7.5)	0.531 (13.5)	0.591 (15.0)	224K305PXXK150
<b>0.22</b>	1.043 (26.5)	0.236 (6.0)	0.591 (15.0)	0.886 (22.5)	224K305PXXK225
<b>0.33</b>	0.709 (18.0)	0.394 (10.0)	0.650 (16.5)	0.591 (15.0)	334K305PXXK150
<b>0.33</b>	1.043 (26.5)	0.276 (7.0)	0.650 (16.5)	0.886 (22.5)	334K305PXXK225
<b>0.47</b>	0.709 (18.0)	0.433 (11.0)	0.728 (18.5)	0.591 (15.0)	474K305PXXK150
<b>0.47</b>	1.043 (26.5)	0.336 (8.5)	0.669 (17.0)	0.886 (22.5)	474K305PXXK225
<b>0.68</b>	1.043 (26.5)	0.394 (10.0)	0.748 (19.0)	0.886 (22.5)	684K305PXXK225
<b>0.68</b>	1.260 (32.0)	0.354 (9.0)	0.709 (18.0)	1.083 (27.5)	684K305PXXK275
<b>1.0</b>	1.043 (26.5)	0.551 (14.0)	0.906 (23.0)	0.886 (22.5)	105K305PXXK225
<b>1.0</b>	1.260 (32.0)	0.433 (11.0)	0.787 (20.0)	1.083 (27.5)	105K305PXXK275
<b>1.5</b>	1.043 (26.5)	0.512 (13.0)	0.906 (23.0)	0.886 (22.5)	155K305PXXK225
<b>1.5</b>	1.260 (32.0)	0.512 (13.0)	0.866 (22.0)	1.083 (27.5)	155K305PXXK275
<b>2.2</b>	1.260 (32.0)	0.591 (15.0)	1.181 (30.0)	1.083 (27.5)	225K305PXXK275
<b>2.2</b>	1.614 (41.0)	0.630 (16.0)	1.122 (28.5)	1.477 (37.5)	225K305PXXK375
<b>3.3</b>	1.260 (32.0)	0.709 (18.0)	1.102 (28.0)	1.083 (27.5)	335K305PXXK275
<b>4.7</b>	1.634 (41.5)	0.945 (24.0)	1.236 (31.4)	1.477 (37.5)	475K305PXXK375

Dimensions in inches, metric (mm) in parenthesis.

How to Order

Example: 103K275P XK100R (0.01 $\mu$ F  $\pm$ 10% 275VAC P XK 10mm Lead Spacing Tape & Reel packaging)

103	K	275	P XK	100R	XXX
Capacitance PF Code (2 significant digits + number of zeros)	Capacitance Tolerance	X2 Safety Voltage rating (VAC)	Series Type	Lead Spacing and Packaging	Special Code
Examples: 102 = 0.001 $\mu$ F 103 = 0.010 $\mu$ F 104 = 0.100 $\mu$ F 224 = 0.220 $\mu$ F 225 = 2.200 $\mu$ F 106 = 10.00 $\mu$ F	J = $\pm$ 5% K = $\pm$ 10% M = $\pm$ 20%	275 = 275VAC 305 = 305VAC	P XK	100 = 10.0mm 150 = 15.0mm 225 = 22.5mm 275 = 27.5mm 375 = 37.5mm	



**Typical Polypropylene Temperature and Frequency Characteristics**

