

**Product Features**

- Four Dielectrics:
 - Standard PTFE
 - Polypropylene
 - Polyimide
 - Polycarbonate
 - Four Different Sizes:
 - 5mm, 7.5mm, 9.5mm, 16mm
 - SMD and lead-through-hole mounting
 - Top, bottom and Side Mount models
 - Wide capacitance ranges
 - Low cost
 - Linear capacitance change vs. rotation
- $Q = 200 @ 1 \text{ MHz}$
 - $\text{PPM}/^{\circ}\text{C}: +150 \pm 250$
 - Compact size

**Product Applications****Typical Applications:**

- Antennas
- RF Equipment
- Transmitters
- Instruments

Modifications & Variations:

- Special capacitance ranges
- Extended Adjust shafts
- Silver and/or Gold Plating
- Special terminal sizes & shapes
- High temperature versions for PTFE

For requests for options such as special adjustments, pin configurations, dielectrics, etc., please contact PPI directly.

**Production Qualification**

FilmTrim Capacitors are in accordance with DIN IEC 418-1 and 4-former DIN 44261 part 3.

Testing methods for manufacturing quality are in accordance with MIL-STD-105D and IEC410 (former DIN44260).

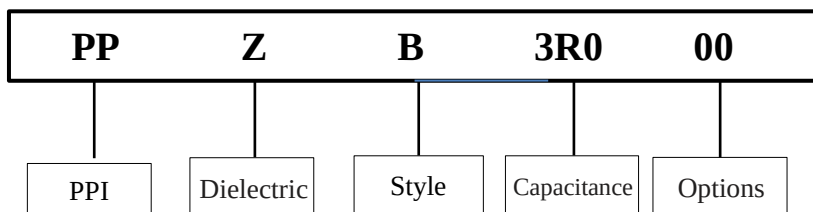
Solderability or heat resistance for the FilmTrim Capacitors comply with DIN IEC 68-2-20 part 2, Test Ta and Tb.

Each FilmTrim Capacitor is tested for minimum and maximum capacitance value and is also subjected to full test voltage.



**Product Line Overview****Part Numbering**

See charts below for details

**Dielectrics**

Dielectrics		
Code	Description	
X	PTFE (Polytetrafluoroethylene)	
Y	PP	(Polypropylene)
Z	PC PI	(Polycarbonate) or (Polyimide)

**Capacitance**

Capacitance Code
1R6 = 1.6pF
400 = 40pF
301 = 300pF

**Special Options**

Special Options (Top Adjust Models)	
Code	Description
00	Standard
02	7.5mm, 2 leads
03	9.5mm, 3 lead special
04	9.5mm, 2 leads

**Style**

Style	
Code	Description
A	7.5mm Top/Bottom Adjust
B	7.5mm Side Adjust
C	9.5mm Top/Bottom Adjust
D	9.5mm Side Adjust
E*	7.5mm Top/Bottom Adjust
F*	9.5mm Top/Bottom Adjust
L	5mm Top Adjust
N	16mm Top Adjust
P	16mm Side Adjust
R*	7.5mm Side Adjust
T*	9.5mm Side Adjust

* Extended Temperature range: -40 to +125°C

For other modifications such as high temperature base material or special lead plating, contact PPI.



Product Line Overview

Product Features

Series	Size (mm)	Heights (mm)		Dielectric	Qmin	Capacitance Range		Voltage Rating (VDC)	Test Voltage (VDC)
		From	To			Min	Max		
XL	5.0	5.0	6.0	PTFE	1500	0.9pF	18pF	150	300
ZL	5.0	5.0	6.3	Polyimide	300	1.0pF	32pF	150	300
XA	7.5	10.2	11.4	PTFE	1500	1.3pF	45pF	200	300
XB	7.5	10.2	11.4	PTFE	1500	1.3pF	45pF	200	300
XE	7.5	10.2	11.4	PTFE High Temp	1500	1.3pF	45pF	200	300
XE NM	7.5	10.2	11.4	PTFE High Temp	1500	1.3pF	45pF	200	300
XR	7.5	10.2	11.4	PTFE High Temp	1500	1.3pF	45pF	200	300
YA	7.5	10.2	10.2	Polypropylene	1000	1.3pF	36pF	200	300
YB	7.5	10.2	10.2	Polypropylene	1000	1.3pF	27pF	200	300
ZA	7.5	10.2	10.2	Polycarbonate	200	2.5pF	40pF	200	300
ZB	7.5	10.2	10.2	Polycarbonate	200	2.5pF	40pF	200	300
XC	9.5	10.2	12.0	PTFE	1500	2.0pF	150pF	200	300
XD	9.5	10.2	12.0	PTFE	1500	2.0pF	150pF	200	300
XF	9.5	10.2	12.4	PTFE High Temp	1500	2.2pF	90pF	200	300
XF NM	9.5	10.2	12.4	PTFE High Temp	1500	2.2pF	90pF	200	300
XT	9.5	10.2	12.4	PTFE High Temp	1500	2.2pF	90pF	200	300
YC	9.5	10.2	10.2	Polypropylene	1000	2.0pF	60pF	200	300
YD	9.5	10.2	10.2	Polypropylene	1000	2.0pF	60pF	200	300
ZC	9.5	10.2	12.0	Polycarbonate	500	7.0pF	180pF	200	300
ZD	9.5	10.2	12.0	Polycarbonate	500	7.0pF	180pF	200	300
ZN	16.0	13.8	16.8	Polycarbonate #1	200	8.0pF	300pF	150	300
ZN	16.0	16.8	16.8	Polycarbonate #2	100	23pF	600pF	150	300
ZP	16.0	13.8	16.8	Polycarbonate #1	200	8.0pF	300pF	150	300
ZP	16.0	16.8	16.8	Polycarbonate #2	100	23pF	600pF	150	300