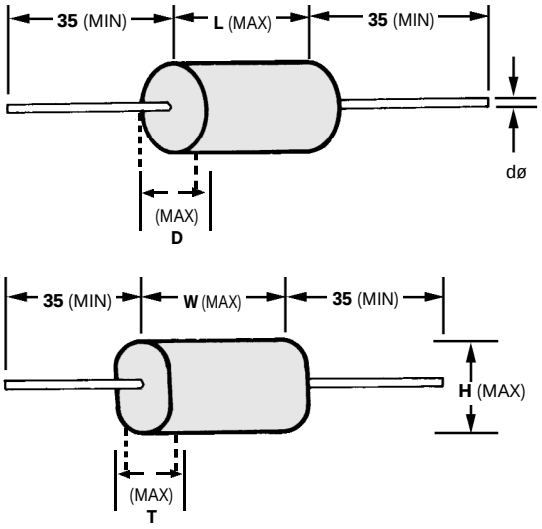
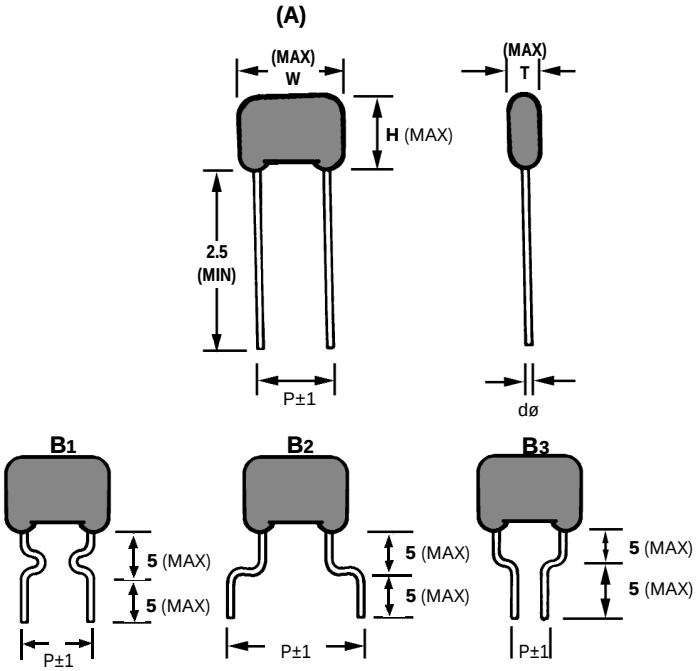
Mechanical Dimensions Unit: mm

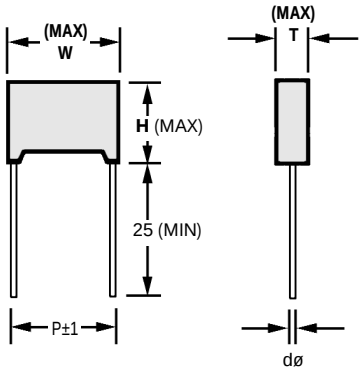
AXIAL (Non-Inductive)



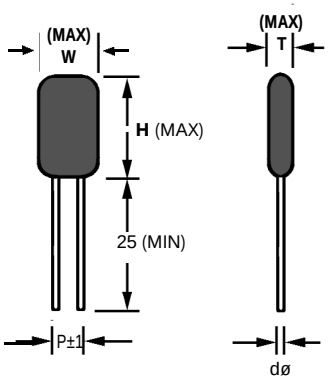
RADIAL (Non-Inductive)



BOX (Non-Inductive)



PEI (Inductive)

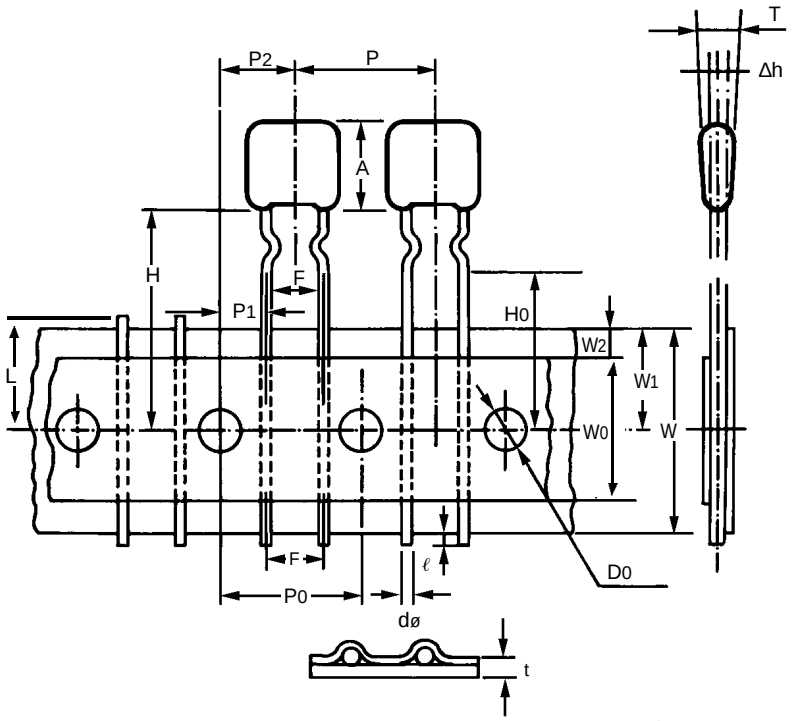


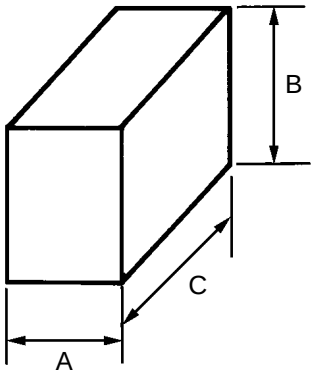
Taping Reference

Radial Tape Reel and Ammo Pack

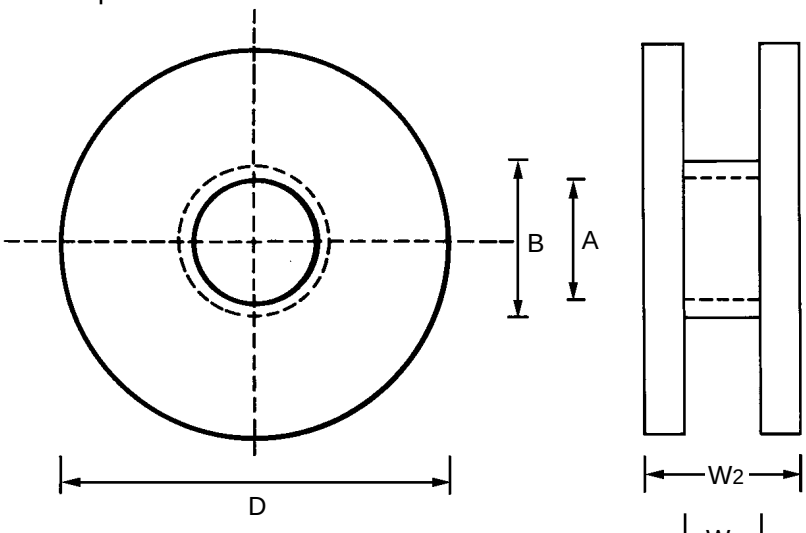
Unit: mm

A	12.5 (MAX)
T	6.5 (MAX)
P	12.7 ± 1 mm
P_0	12.7 ± 0.3 mm
P_1	3.85 ± 0.7 mm
P_2	6.35 ± 1.3 mm
d	0.6 ± 0.05 mm (PEN/PPN/MEF)
	0.5 ± 0.05 mm (PEI)
F	5 + 0.8 mm
	- 0.2 mm
Δh_0	± 2 mm
W	18 + 1 mm
	- 0.5
W_0	12.5 mm (MIN)
W_1	9 ± 0.5 mm
W_2	3 mm (MAX)
ℓ	1 mm (MAX)
D_0	4 ± 0.2 mm
t	0.7 ± 0.2 mm
L	11 mm (MAX)
H_0	16 ± 0.5 mm
H	20.5 ± 0.75 mm (PEI)
	22.5 ± 0.75 mm (PEN/PPN/MEF)





A: 50 ± 2 mm
B: 260 mm (MAX)
C: 340 mm (MAX)



A: 28 ±.3 mm
B: 80 mm (MIN)
D: 360 mm (MAX)

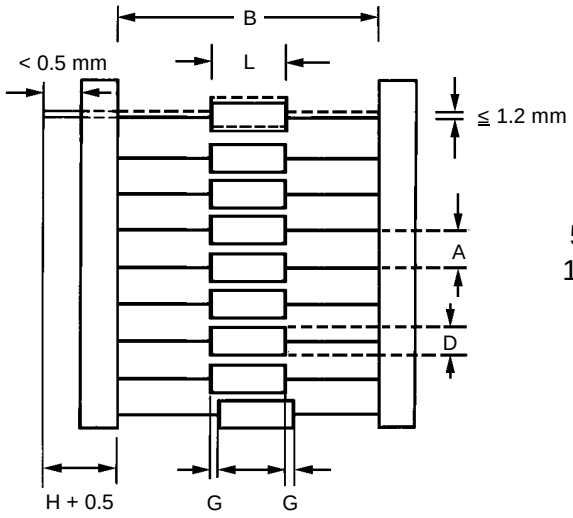
W_1: $45\ ^{+5}_{-2}$ mm

W_2: 55 mm (MAX)

Taping Reference

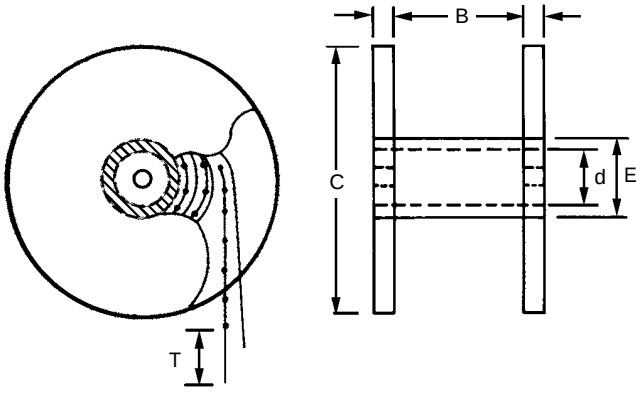
Unit: mm

Axial Lead Tape And Reel



D	A	L	B
D ≤ 5	5 ± 0.5	L ≤ 16.5	52.4 ± 1.5
5.1 < D ≤ 10	10 ± 0.5	17< L ≤ 28	63.5 ± 1.5
10.1 < D ≤ 15	15 ± 0.5	28.5 < L ≤ 37	73 ± 1.5

Reel Packing



Dimensions Unit: mm		
Tape Spacing	“B”	See above
Tape width	“H”	6±0.5
Reel diameter	“C”	356±5
Body Location	“G”	≤0.7
Core diameter	“E”	90
Arbor hole diameter	“d”	30
Bare tape at both terminals of reel	“T”	915 MIN.

DIA. Range	Packing Quantity PCS/PER Reel
D ≤ 5	3000
5.5 < D ≤ 10	500~1500
10.5 < D ≤ 15	200~500

Polyester Film Capacitors

PEI/PEIM are inductively wound with Polyester film dielectric and aluminum foil as the electrode with copper-clad steel leads and epoxy resin coated. They are suitable for blocking, by-pass and coupling in timing circuits and filters. They are ideal for applications in TV, Radio, Tape-recorder, stereo, and other consumer electronic equipment.

Features:

- High moisture resistance
- Good solderability
- Available on tape and ammo pack for automatic insertion
- Low ESR
- Space-saving miniature size

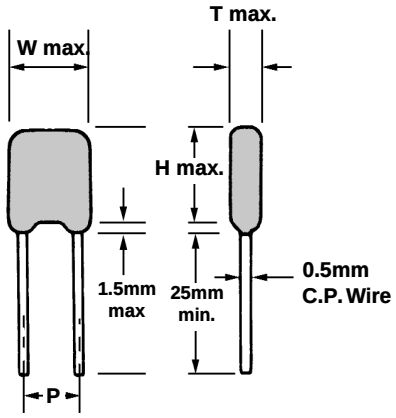
Electrical Characteristics:

- Operating temperature -40°C ~ +85°C
- Capacitance range 0.001μF ~ 0.47μF
- Rated voltage DC 50V, 100V, 200V, 400V, 630V
- Dissipation Factor 0.0075 (at 1KHz)
- Insulation Resistance 50,000 MEGOHM MIN.

Tolerance:

- J (±5%), K(±10%), M (±20%)

PEI/PEIM



Dimension (mm) PEI

Cap Code	Cap μF	50&100VDC				200VDC				400VDC			
		W	T	H	P	W	T	H	P	W	T	H	P
102	.001	5.8	3.3	10.5	3.0	7.0	4.0	11.0	3.0	8.0	4.0	12.0	3.0
122	.0012	5.8	3.3	10.5	3.0	7.0	4.0	11.0	3.0	8.0	4.0	12.0	3.0
152	.0015	5.8	3.3	10.5	3.0	7.0	4.0	11.0	3.0	8.0	4.0	12.0	3.0
182	.0018	5.8	3.3	10.5	3.0	7.0	4.0	11.0	3.0	8.0	4.0	12.0	3.0
222	.0022	5.8	3.3	10.5	3.0	7.0	4.0	11.0	3.0	9.0	5.0	12.0	4.0
272	.0027	5.8	3.3	10.5	3.0	7.0	4.0	11.0	3.0	9.0	5.0	12.0	4.0
332	.0033	5.8	3.3	10.5	3.0	7.0	4.0	11.0	3.0	9.0	5.0	12.0	4.0
392	.0039	6.0	3.5	10.5	3.0	7.0	4.0	11.0	3.0	9.0	5.0	12.0	4.0
472	.0047	6.0	3.5	10.5	3.0	7.0	4.0	11.0	3.0	9.0	6.0	12.0	4.0
562	.0056	6.0	3.5	10.5	3.0	7.0	4.0	11.0	3.0	10.0	6.0	12.0	4.0
682	.0068	6.0	3.5	10.5	3.0	7.0	4.0	11.0	3.0	10.0	6.0	12.0	4.0
822	.0082	6.5	4.0	10.5	3.0	7.0	4.5	11.0	3.0	10.0	6.0	12.0	4.0
103	.01	6.5	4.0	10.5	3.0	7.0	4.5	11.0	3.0	10.01	6.0	14.0	5.0
123	.012	6.5	4.0	10.5	3.0	7.0	4.5	11.0	3.0	0.0	6.0	14.0	5.0
153	.015	7.5	4.0	10.5	4.0	9.0	5.0	13.0	4.0	10.0	6.0	14.0	5.0
183	.018	7.5	4.0	10.5	4.0	9.0	5.0	13.0	4.0	10.0	6.0	14.0	6.0
223	.022	7.8	4.5	10.5	4.0	9.0	5.0	13.0	4.0	10.0	6.0	14.0	6.0
273	.027	7.8	4.5	12.0	5.0	9.0	5.5	13.0	5.0	11.0	6.0	14.0	6.0
333	.033	8.0	4.6	12.0	5.0	9.0	5.5	13.0	5.0	12.0	7.0	14.0	7.0
393	.039	8.0	5.0	12.5	5.0	11.0	6.0	14.0	5.0	12.0	7.0	16.0	7.0
473	.047	9.3	5.0	12.5	6.0	11.0	6.0	14.0	6.0	13.0	8.0	16.0	8.0
563	.056	9.7	5.0	12.5	6.0	11.0	7.0	14.0	6.0	14.0	9.0	16.0	9.0
683	.068	10.0	5.5	12.5	6.0	12.0	7.0	14.0	6.0	15.0	10.0	17.0	10.0
823	.082	10.5	6.0	12.5	7.0	13.0	8.0	15.0	7.0	15.0	11.0	20.0	10.0
104	.1	11.5	6.5	13.0	7.0	14.0	8.0	15.0	7.0	15.0	12.0	20.0	10.0
124	.12	12.0	7.0	13.0	7.0	14.0	8.0	15.0	7.0	16.0	13.0	20.0	10.0
154	.15	12.0	7.0	15.0	7.0	15.0	8.0	17.0	7.0				
184	.18	12.0	7.5	16.0	8.0	16.0	9.0	18.0	8.0				
224	.22	13.5	8.0	16.0	8.0	18.0	10.0	18.0	8.0				
274	.27	14.0	8.5	16.0	8.0								
334	.33	15.5	8.5	19.0	10.0								
394	.39	16.0	9.0	20.0	10.0								
474	.47	18.0	10.0	21.0	10.0								

(Miniature Size) PEIM

Cap Code	Cap μF	50&100VDC			
		W	T	H	P
102-562	.001-.0056	5.5	3.0	7.5	3.0
682-103	.0068-.01	6.0	3.0	7.5	3.0
123-183	.012-.018	6.5	3.5	9.5	4.0
223	.022	6.5	4.0	9.5	4.0
273-333	.027-.033	7.0	4.0	9.5	5.0
393-473	.039-.047	8.0	4.0	9.5	5.0
563-683	.056-.068	9.0	5.0	11.0	5.0 or 6.0
823	.082	9.0	5.5	11.5	5.0 or 7.0
104-124	.10-.12	10.0	6.0	11.5	5.0 or 7.0
154	.15	11.0	6.0	12.5	5.0 or 7.0
184	.18	11.0	7.0	13.0	5.0 or 8.0
224	.22	12.0	7.0	13.0	5.0 or 8.0
274	.27	13.0	8.0	14.0	5.0 or 8.0
334	.33	13.0	8.0	14.5	5.0 or 10.0
394	.39	14.0	10.0	15.0	5.0 or 10.0
474	.47	15.0	11.0	15.0	5.0 or 10.0

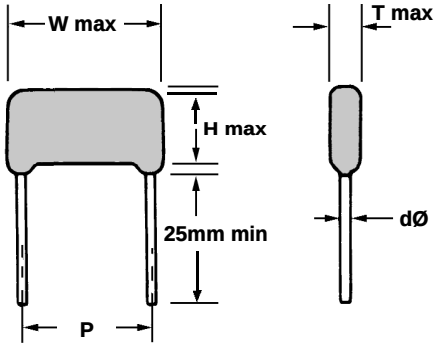
* For specifications on 630V please consult factory.

PEN

PEN are non-inductively wound with Polyester film dielectric and aluminum foil electrode with copper-clad steel leads and epoxy resin coated. They are ideal for applications in commercial industrial equipment requiring noiseless small signal circuits.

Features:

- High stability and reliability.
- Excellent environmental performance
- Low ESR
- Non-inductive construction minimizes dissipation factor



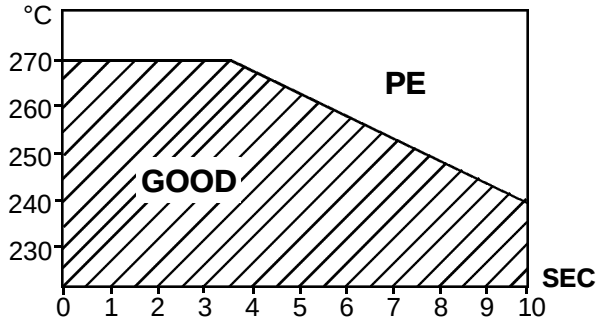
Specifications:

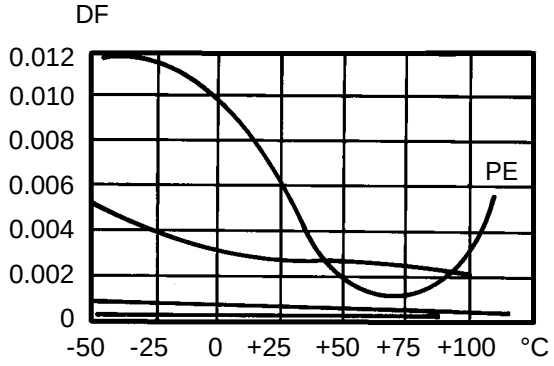
- Operating Temperature: -40°C ~+ 85°C
- Capacitance Range: .001μF ~ .47μF
- Capacitance Tolerance: J (±5%), K (±10%), M (±20%)
- Rated Voltage: 50 VDC, 100 VDC, 200 VDC
- Dissipation Factor: 0.8%Max at 1 KHz, 25°C
- Insulation Resistance: >20000 MΩ (C≤ .1μF)
  >2000 MΩμF (C>.1μF)

Unit: mm

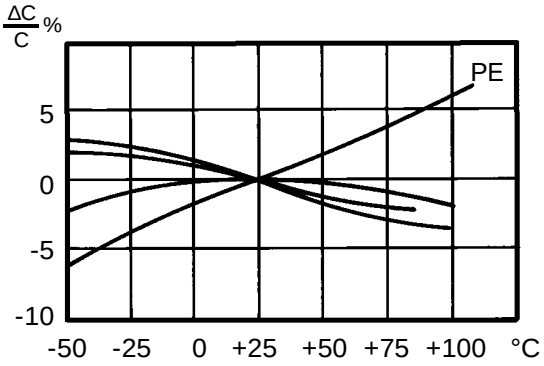
CAP Code	R.V. / Size / CAPμF	50VDC/100VDC					200VDC				
		W	H	T	P	dø	W	H	T	P	dø
102	.001	10.5	9.5	5	7±1	0.6	10.5	9.5	5	7±1	0.6
152	.0015	10.5	9.5	5.5	7±1	0.6	10.5	9.5	5.5	7±1	0.6
222	.0022	10.5	9.5	5.5	7±1	0.6	10.5	9.5	5.5	7±1	0.6
332	.0033	10.5	9.5	5.5	7±1	0.6	10.5	9.5	5.5	7±1	0.6
472	.0047	10.5	9.5	5.5	7±1	0.6	10.5	9.5	5.5	7±1	0.6
682	.0068	10.5	9.5	5.5	7±1	0.6	10.5	9.5	5.5	7±1	0.6
103	.01	10.5	9.5	6	7±1	0.6	10.5	9.5	6	7±1	0.6
153	.015	10.5	9.5	6	7±1	0.6	13.5	10	6	10±1.5	0.6
223	.022	10.5	9.5	6	7±1	0.6	13.5	11	6	10±1.5	0.6
333	.033	13.5	10	6	10±1.5	0.6	13.5	13	7	10±1.5	0.6
473	.047	13.5	11.5	7.5	10±1.5	0.6	14	14	8	10±1.5	0.6
683	.068	13.5	12.5	7	10±1.5	0.6	19	16	9	15±1.5	0.8
104	.1	14	13	8	10±1.5	0.6	19	17	9	15±1.5	0.8
154	.15	19	13.5	7.5	15±1.5	0.8	20	18	10	15±1.5	0.8
224	.22	20	15	8.5	15±1.5	0.8	26	21	10.5	21±1.5	0.8
334	.33	20	17.5	10.5	15±1.5	0.8	26	22	11.5	22±1.5	0.8
474	.47	20	21.5	13	15±1.5	0.8	31	24	13	27.5±1.5	0.8

Soldering Temperature VS Time





Temperature Characteristics



Frequency Characteristics