

# Polyester Film Capacitors



**TPEN** Series  
(Axial Tubular)

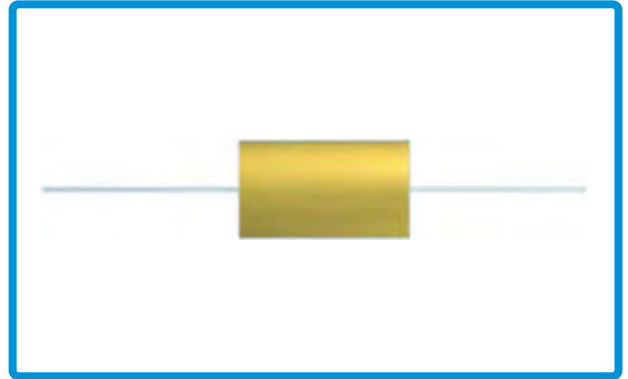
**MERITEK**

## FEATURES

- High stability and reliability
- Excellent environmental performance
- Low ESR and minimized dissipation factor

## SPECIFICATIONS

1. Operating temperature: -40°C to +85°C
2. Capacitance range: 0.001μF to 0.47μF
3. Capacitance tolerance: ±5%(J), ±10%(K), ±20%(M)
4. Rated voltage: 50VDC, 250VDC, 400VDC, 630VDC
5. Dissipation factor: 0.8% max. at 1KHz, 25°C
6. Insulation resistance: >20000MΩ (C < 0.1μF)  
<2000MΩ • μF (C > 0.1μF)



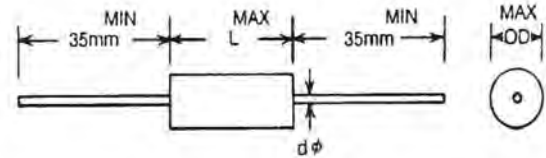
## PART NUMBERING SYSTEM

Meritek Series	<b>TPEN</b>	<b>102</b>	<b>J</b>	<b>2E</b>
Capacitance				
CODE	102	103	104	
(pF)	1,000	10,000	100,000	
(nF)	1	10	100	
(μF)	0.001	0.01	0.1	
Tolerance				
CODE	J	K	M	
Tolerance (%)	± 5	± 10	± 20	
Rated Voltage				
CODE	1H	2E	2G	2J
	50V	250V	400V	630V

Tape & Reel / Tape & Ammo available for diameter 10 mm or smaller  
Please contact factory for part number

**TPEN** are constructed with polyester film dielectric, aluminum foil electrodes, tinned copper leads, and an outer wrapping of non-inductive polyester film. Both ends are sealed using an epoxy resin. TPEN are suitable for use in timing, delay, and oscillation circuits. Ideal applications include instruments for telecommunications, i.e. signal coupling and decoupling.

ations are subject to change without notice.



Dimensions in millimeters (mm)

Rated Voltage DIM. CAP(μF)	50VDC			250VDC			400VDC			630VDC		
	∅ D	L	d∅	∅ D	L	d∅	∅ D	L	d∅	∅ D	L	d∅
0.0010	5.0	15.0	0.5	5.0	15.0	0.5	5.0	15.0	0.5	5.0	15.0	0.5
0.0015	5.0	15.0	0.5	5.0	15.0	0.5	5.0	15.0	0.5	6.0	15.0	0.5
0.0022	5.0	15.0	0.5	5.0	15.0	0.5	5.0	18.0	0.5	6.0	21.0	0.5
0.0033	5.0	15.0	0.5	5.0	15.0	0.5	6.0	18.0	0.5	6.0	21.0	0.5
0.0047	5.0	15.0	0.5	5.5	15.0	0.5	6.0	18.0	0.5	7.0	21.0	0.5
0.0068	5.5	15.0	0.5	5.5	15.0	0.5	7.5	18.0	0.6	7.5	21.0	0.6
0.01	5.5	15.0	0.5	6.0	15.0	0.5	8.5	18.0	0.6	7.5	21.0	0.6
0.015	6.5	15.0	0.5	7.0	15.0	0.6	10.0	18.0	0.6	7.5	24.0	0.6
0.022	6.0	18.0	0.6	7.0	18.0	0.6	9.0	21.0	0.6	8.5	24.0	0.6
0.033	6.5	18.0	0.6	7.0	21.0	0.6	9.5	24.0	0.6	9.5	27.0	0.6
0.047	6.5	21.0	0.6	7.5	21.0	0.6	11.0	24.0	0.6	11.0	27.0	0.6
0.068	7.5	21.0	0.6	8.0	21.0	0.6	10.5	27.0	0.6	13.0	27.0	0.8
0.1	8.0	24.0	0.6	8.5	24.0	0.6	12.5	27.0	0.6	15.0	35.0	0.8
0.15	9.0	24.0	0.6	9.5	24.0	0.8	14.0	33.0	0.8			
0.22	10.0	27.0	0.6	10.0	33.0	0.8	16.0	35.0	0.8			
0.33	10.5	33.0	0.6	14.0	33.0	0.8						
0.47	12.0	33.0	0.6	16.0	34.0	0.8						

Custom sizes available upon request

Custom values and tolerances available upon request

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