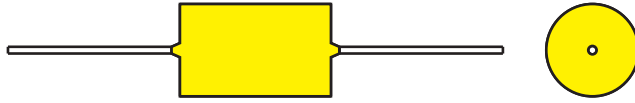


Type: **PT - Axial Lead Film-Foil Polypropylene Capacitor**



Specifications

Construction: Polypropylene dielectric.
wound film-foil construction.
Electrode: Aluminum
Enclosure: UL 94 V-0 flame retardant encasing.
Lead Wire: Copper-clad steel core wire electroplated with 100% Tin.

Features

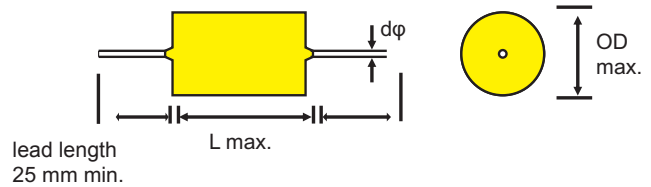
- High Reliability
- Excellent Long-term Stability
- Negative Temperature Coefficient for Critical Applications
- High Tolerance: available in ±1%, ±2%, ±3%, ±5%, ±10% and ±20%

DF: ≤ 0.1% at 1KHz 20±3°C.
I.R.: C < 0.33µF, R ≥ 30,000 MegOhms @ 20±3°C
C ≥ 0.33µF, RC ≥ 10,000 MegOhms x µF
Dielectric Strength: 2.0 x rated VDC for 2 seconds max.
Temp Range: -40°C to 105°C, derate voltage 1.5% / °C above 85°C
Marking: Type, capacitance code, tolerance code and working voltage.
Bulk, Ammo or Reel packed.

Typical Applications

- Communication
- Timing/Oscillation Circuits
- signal coupling
- Bypass Filtering

Packaging:



Accelerated Performance Testing

DC Life: 1,000 Hours, 85°C, 1.25 × Rated VDC
Limits: Δ C/C ≤ 3%, DF ≤ 0.12%,
IR ≥ 50% of initial limit
Moisture: 40°C / 95% RH / 504 hours
Limits: Δ C/C < 2%, DF ≤ 0.1%,
IR ≥ 50% of initial limit
Vibration: IEC 60068-2-21

OD	dφ
up to 0.31 (8.0)	22AWG
over 0.31 (8.0)	20AWG

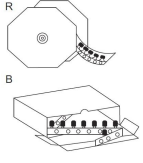
VDC \ L	0.45 (11.5)	0.53 (13.5)	0.63 (16.0)	0.75 (19.0)	0.91 (23.0)	1.06 (27.0)	1.26 (32.0)	1.46 (37.0)
100	4500	4500	2100	2100	1100	900	900	-
250	6000	6000	300	3000	1400	1100	900	-
400	14400	14400	7200	7200	3000	2100	2100	900
630	-	15000	7400	7400	4000	3000	3000	1000
1000	-	-	-	9000	5800	3700	3700	3000

VDC \ µF	100 VDC		250 VDC		400VDC		630VDC		1000VDC	
	OD	L	OD	L	OD	L	OD	L	OD	L
0.0010	0.20 (5.0)	0.45 (11.5)	0.20 (5.0)	0.45 (11.5)	0.20 (5.0)	0.45 (11.5)	0.20 (5.0)	0.53 (13.5)	0.30 (7.5)	0.75 (19.0)
0.0015	0.20 (5.0)	0.45 (11.5)	0.20 (5.0)	0.45 (11.5)	0.20 (5.0)	0.45 (11.5)	0.20 (5.0)	0.53 (13.5)	0.31 (8.0)	0.75 (19.0)
0.0022	0.20 (5.0)	0.45 (11.5)	0.20 (5.0)	0.45 (11.5)	0.20 (5.0)	0.45 (11.5)	0.24 (6.0)	0.53 (13.5)	0.35 (8.8)	0.75 (19.0)
0.0033	0.20 (5.0)	0.45 (11.5)	0.20 (5.0)	0.45 (11.5)	0.24 (6.0)	0.53 (13.5)	0.28 (7.0)	0.63 (16.0)	0.37 (9.5)	0.75 (19.0)
0.0047	0.22 (5.5)	0.45 (11.5)	0.22 (5.5)	0.45 (11.5)	0.26 (6.5)	0.53 (13.5)	0.30 (7.5)	0.63 (16.0)	0.41 (10.5)	0.75 (19.0)
0.0068	0.24 (6.0)	0.45 (11.5)	0.24 (6.0)	0.45 (11.5)	0.28 (7.0)	0.53 (13.5)	0.30 (7.5)	0.75 (19.0)	0.45 (11.5)	0.75 (19.0)
0.010	0.26 (6.5)	0.45 (11.5)	0.26 (6.5)	0.53 (13.5)	0.30 (7.5)	0.63 (16.0)	0.33 (8.5)	0.75 (19.0)	0.45 (11.5)	1.06 (27.0)
0.015	0.26 (6.5)	0.53 (13.5)	0.28 (7.0)	0.63 (16.0)	0.33 (8.5)	0.63 (16.0)	0.39 (10)	0.91 (23.0)	0.50 (12.5)	1.06 (27.0)
0.022	0.28 (7.0)	0.53 (13.5)	0.30 (7.5)	0.63 (16.0)	0.37 (9.5)	0.63 (16.0)	0.43 (11)	1.06 (27.0)	0.55 (14)	1.06 (27.0)
0.033	0.30 (7.5)	0.63 (16.0)	0.30 (7.5)	0.75 (19.0)	0.37 (9.5)	0.75 (19.0)	0.47 (12)	1.26 (32.0)	0.55 (14)	1.46 (37.0)
0.047	0.30 (7.5)	0.75 (19.0)	0.33 (8.5)	0.75 (19.0)	0.41 (10.5)	0.75 (19.0)	0.51 (13)	1.26 (32.0)	0.63 (16)	1.46 (37.0)
0.068	0.33 (8.5)	0.75 (19.0)	0.35 (9.0)	0.91 (23.0)	0.41 (10.5)	0.91 (23.0)	0.55 (14)	1.26 (32.0)	-	-
0.10	0.37 (9.5)	0.91 (23.0)	0.41 (10.5)	0.91 (23.0)	0.51 (13)	1.06 (27.0)	0.61 (15.5)	1.46 (37.0)	-	-
0.15	0.43 (11)	1.06 (27.0)	0.50 (12.5)	1.06 (27.0)	0.51 (13)	1.26 (32.0)	-	-	-	-
0.22	0.50 (12.5)	1.26 (32.0)	0.53 (13.5)	1.26 (32.0)	0.60 (15.0)	1.26 (32.0)	-	-	-	-
0.33	0.55 (14)	1.26 (32.0)	0.60 (15.0)	1.26 (32.0)	0.67 (17)	1.46 (37.0)	-	-	-	-
0.47	0.60 (15.0)	1.26 (32.0)	-	-	-	-	-	-	-	-

Dimensions in inches, metric (mm) in parenthesis.

Type: PT - Axial Lead Film-Foil Polypropylene Capacitor
How to Order

 Example: 104G100PTR (0.01 μ F \pm 2% 100vdc PT Series Tape & Reel packaging)

104	G	100	PT	R	XXX
Capacitance PF Code (2 significant digits + number of zeros) Examples: 102 = 0.001 μ F 103 = 0.010 μ F 104 = 0.100 μ F 224 = 0.220 μ F 225 = 2.200 μ F 106 = 10.00 μ F	Capacitance Tolerance F = \pm 1% G = \pm 2% H = \pm 2.5% J = \pm 5% K = \pm 10%	Voltage 100 = 100VDC 250 = 250VDC 400 = 400VDC 630 = 630VDC 1K0 = 1000VDC	Series Type	Lead Style and Packaging  R = Taped and reeled B = Radial ammo Packaged per EIA 468	Special Code