Type PS, Orange Drop®, Polyester/Polypropylene Film Capacitors

Features

- Radial-lead. Non-inductively wound, extended foil construction.
- Long established distribution series.

Specifications

Capacitance Range: .001 to .5 µF

Capacitance Tolerance: ±10%

Voltage Ratings: 200 to 2000 Volts DC

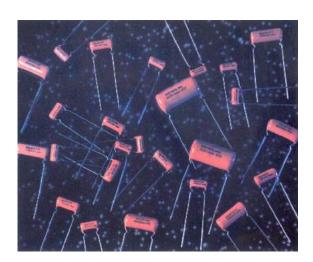
Operating Temperature Range: -40°C to +85°C (at full voltage)

Voltage Derating:

Units rated 200 thru 1000 VDC: at +105°C, 70% of +85°C rating. at +125°C, 50% of +85°C rating. Units rated 1600 and 2000 VDC: at +105°C, 50% of +85°C rating.

Lead Wire:

Tinned copper-clad steel. 0.032 (0.8) diameter, #20 AWG



Insulation Resistance:

At +25°C the minimum product of insulation resistance, expressed in megohms, and capacitance, expressed in microfarads, shall be 5000 M Ω - μ F

Dissipation Factor:

Units rated 200 thru 1000 VDC: 0.75% Maximum
Units rated 1600 and 2000 VDC: 0.1% Maximum

Encapsulation:

Conformal coating of orange, flame retardant epoxy. Meets minimum of UL94V-0 specifications.

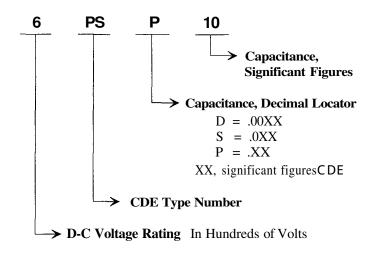
Dielectric/Construction:

Units rated 200 thru 1000 VDC: Polyester film, single section design, noninductively wound with extended foil.

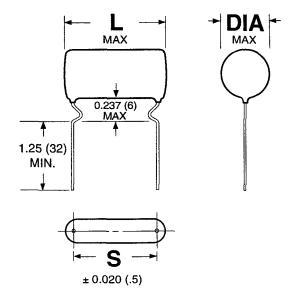
Units rated 1600 and 2000 VDC:
Polypropylene film, non-inductively wound, series section design with extended foil and utilizing a floating common of metallized polypropylene film.

RoHS Compliant

Ordering/Part Number Information



Dimensions



Standard Marking Format

Marking	Description			
CDE 6PS-P10 104K600V 9810	CDE 6PS-P10 600V 104K 9810	CDE Electronics identification Part number D-C Voltage rating, Volts Capacitance and EIA tolerance code* Weekly date code		
	, , , ,	(i.e. 10th week of 1998)		

* Capacitance code expressed in picofarads, first two digits are the significant figures, the third is the number of zeros following (i.e. $104 = 100000 pF = .1 \mu F$). EIA tolerance code: $K = \pm 10\%$.

<u>Note:</u> The PS series was primarily designed for DC applications. If you require additional technical data or application information for an AC application we suggest you contact us.

Type PS Standard Sizes/Ratings

Value, μF	Part #1	LMAX	DIA MAX	S	Value, μF	Part #1	L MAX	DIA MAX	s
200 VDC					600 VDC				
.02	2PSS20	.70 (17.8)	.33 (8.4)	.500 (12.7)	.003	6PSD30	.70 (17.8)	.35 (8.9)	.500 (12.7)
.022	2PSS22	.70 (17.8)	.33 (8.4)	.500 (12.7)	.0033	6PSD33	.70 (17.8)	.35 (8.9)	.500 (12.7)
.047	2PSS47	.90 (22.9)	.38 (9.7)	.688 (17.5)	.0039	6PSD39	.70 (17.8)	.38 (9.7)	.500 (12.7)
.05	2PSS50	.90 (22.9)	.38 (9.7)	.688 (17.5)	.004	6PSD40	.70 (17.8)	.38 (9.7)	.500 (12.7)
				/	.0047	6PSD47	.70 (17.8)	.38 (9.7)	.500 (12.7)
.1	2PSP10	1.20 (30.5)	.40 (10.2)	.969 (24.6)	205	000000	70 (47.0)	00 (0.7)	500 (40 7)
.15	2PSP15	1.20 (30.5)	.45 (11.4)	.969 (24.6)	.005	6PSD50 6PSD56	.70 (17.8)	.38 (9.7)	.500 (12.7)
.2 .22	2PSP20	1.20 (30.5)	.50 (12.7)	.969 (24.6) .969 (24.6)	.0056 .006	6PSD60	.70 (17.8) .70 (17.8)	.40 (10.2)	.500 (12.7) .500 (12.7)
.25	2PSP22	1.20 (30.5) 1.20 (30.5)	.50 (12.7) .50 (12.7)	.969 (24.6)	.006	6PSD68	.70 (17.8)	.40 (10.2) .40 (10.2)	.500 (12.7)
.23	2PSP25	1.20 (30.5)	.50 (12.7)	.909 (24.0)	.0075	6PSD75	.70 (17.8)	.40 (10.2)	.500 (12.7)
.33	2PSP33	1.60 (40.6)	.47 (11.9)	1.344 (34.1)	.0075	01 0070	.70 (17.0)	.40 (10.2)	.500 (12.7)
.47	2PSP47	1.60 (40.6)	.55 (14.0)	1.344 (34.1)	.008	6PSD80	.90 (22.9)	.40 (10.2)	.688 (17.5)
.5	2PSP50	1.60 (40.6)	.55 (14.0)	1.344 (34.1)	.0082	6PSD82	.90 (22.9)	.40 (10.2)	.688 (17.5)
	0. 00		(* 110)	- (-)	.01	6PSS10	.90 (22.9)	.40 (10.2)	.688 (17.5)
	400 VDC				.012	6PSS12	.90 (22.9)	.40 (10.2)	.688 (17.5)
.01	4PSS10	.70 (17.8)	.35 (8.9)	.500 (12.7)	.015	6PSS15	.90 (22.9)	.40 (10.2)	.688 (17.5)
.015	4PSS15	.70 (17.8)	.38 (9.7)	.500 (12.7)	.02	6PSS20	.90 (22.9)	.45 (11.4)	.688 (17.5)
		, ,	` ,	` ,	.022	6PSS22	.90 (22.9)	.45 (11.4)	.688 (17.5)
.02	4PSS20	.90 (22.9)	.38 (9.7)	.688 (17.5)	.025	6PSS25	.90 (22.9)	.45 (11.4)	.688 (17.5)
.022	4PSS22	.90 (22.9)	.38 (9.7)	.688 (17.5)					
.025	4PSS25	.90 (22.9)	.40 (10.2)	.688 (17.5)	.027	6PSS27	1.20 (30.5)	.45 (11.4)	.969 (24.6)
.03	4PSS30	.90 (22.9)	.40 (10.2)	.688 (17.5)	.03	6PSS30	1.20 (30.5)	.45 (11.4)	.969 (24.6)
.033	4PSS33	.90 (22.9)	.40 (10.2)	.688 (17.5)	.033	6PSS33	1.20 (30.5)	.45 (11.4)	.969 (24.6)
					.035	6PSS35	1.20 (30.5)	.45 (11.4)	.969 (24.6)
.04	4PSS40	1.20 (30.5)	.40 (10.2)	.969 (24.6)	.039	6PSS39	1.20 (30.5)	.55 (14.0)	.969 (24.6)
.047	4PSS47	1.20 (30.5)	.40 (10.2)	.969 (24.6)	0.4	000010	1 00 (00 5)	== ((4.0)	222 (24.2)
.05	4PSS50	1.20 (30.5)	.40 (10.2)	.969 (24.6)	.04	6PSS40	1.20 (30.5)	.55 (14.0)	.969 (24.6)
.056	4PSS56	1.20 (30.5)	.45 (11.4)	.969 (24.6)	.047 .05	6PSS47 6PSS50	1.20 (30.5) 1.20 (30.5)	.55 (14.0)	.969 (24.6)
.068 .075	4PSS68	1.20 (30.5)	.45 (11.4)	.969 (24.6)	.056	6PSS56	1.20 (30.5)	.55 (14.0)	.969 (24.6) .969 (24.6)
.075	4PSS75 4PSP10	1.20 (30.5) 1.20 (30.5)	.45 (11.4) .52 (13.2)	.969 (24.6) .969 (24.6)	.030	01 3330	1.20 (30.3)	.60 (15.2)	.909 (24.0)
.15	4PSP10 4PSP15	1.20 (30.5)	.57 (14.5)	.969 (24.6)	.06	6PSS60	1.20 (30.5)	.60 (15.2)	.969 (24.6)
.10	455515	1.20 (30.3)	.57 (14.5)	.505 (24.0)	.068	6PSS68	1.20 (30.5)	.60 (15.2)	.969 (24.6)
.2	4PSP20	1.60 (40.6)	.60 (15.2)	1.344 (34.1)	.075	6PSS75	1.20 (30.5)	.60 (15.2)	.969 (24.6)
.22	4PSP22	1.60 (40.6)	.60 (15.2)	1.344 (34.1)	.082	6PSS82	1.20 (30.5)	.65 (16.5)	.969 (24.6)
.25	4PSP25	1.60 (40.6)	.65 (16.5)	1.344 (34.1)	.1	6PSP10	1.20 (30.5)	.65 (16.5)	.969 (24.6)
		600 VDC			.15	6PSP15	1.60 (40.6)	.70 (17.8)	1.344 (34.1)
000 VDC				.2	6PSP20	1.60 (40.6)	.80 (20.3)	1.344 (34.1)	
.001	6PSD10	.70 (17.8)	.30 (7.6)	.500 (12.7)	.22	6PSP22	1.60 (40.6)	.80 (20.3)	1.344 (34.1)
.0012	6PSD12	.70 (17.8)	.33 (8.4)	.500 (12.7)	.25	6PSP25	1.60 (40.6)	.80 (20.3)	1.344 (34.1)
.0015	6PSD15	.70 (17.8)	.33 (8.4)	.500 (12.7)	1			-	·
.0018	6PSD18	.70 (17.8)	.33 (8.4)	.500 (12.7)	.33	6PSP33	1.81 (46.0)	.89 (22.6)	1.531 (38.9)
.002	6PSD20	.70 (17.8)	.33 (8.4)	.500 (12.7)					
.0022	6PSD22	.70 (17.8)	.33 (8.4)	.500 (12.7)					
.0025	6PSD25	.70 (17.8)	.35 (8.9)	.500 (12.7)					
.0027	6PSD27	.70 (17.8)	.35 (8.9)	.500 (12.7)	1				

¹ Shaded part numbers above are standard stock items available through the CDE Distribution Network. Any other part number may be ordered as a special.

Dimensions in inches, metric (mm) in parenthesis.

Type PS Standard Sizes/Ratings

Value, μF	Part #1	LMAX	DIA MAX	S	Value, μF	Part #1	L MAX	DIA MAX	S	
1000 VDC					1600 VDC / 475 VAC*					
.001	10PSD10	.70 (17.8)	.33 (8.4)	.500 (12.7)	.005	16PSD50	1.30 (33.0)	.50 (12.7)	.969 (24.6)	
.0015	10PSD15	.70 (17.8)	.33 (8.4)	.500 (12.7)	.006	16PSD60	1.30 (33.0)	.55 (14.0)	.969 (24.6)	
.002	10PSD20	.70 (17.8)	.35 (8.9)	.500 (12.7)	.0068	16PSD68	1.30 (33.0)	.55 (14.0)	.969 (24.6)	
.0022	10PSD22	.70 (17.8)	.35 (8.9)	.500 (12.7)	.007	16PSD70	1.30 (33.0)	.55 (14.0)	.969 (24.6)	
.0033	10PSD33	.90 (22.9)	.35 (8.9)	.688 (17.5)	.0075	16PSD75	1.30 (33.0)	.55 (14.0)	.969 (24.6)	
.004	10PSD40	.90 (22.9)	.40 (10.2)	.688 (17.5)	.008	16PSD80	1.30 (33.0)	.60 (15.2)	.969 (24.6)	
.005	10PSD50	.90 (22.9)	.40 (10.2)	.688 (17.5)	.01	16PSS10	1.30 (33.0)	.60 (15.2)	.969 (24.6)	
	10PSD68 10PSS10	.90 (22.9) .90 (22.9)	.43 (10.9) .48 (12.2)	.688 (17.5) .688 (17.5)	.015	16PSS15	1.30 (33.0)	.65 (16.5)	.969 (24.6)	
			()	(*****)	.018	16PSS18	1.70 (43.2)	.65 (16.5)	1.344 (34.1)	
.015	10PSS15	1.20 (30.5)	.48 (12.2)	.969 (24.6)	.02	16PSS20	1.70 (43.2)	.65 (16.5)	1.344 (34.1)	
	10PSS22	1.20 (30.5)	.58 (14.7)	.969 (24.6)	.022	16PSS22	1.70 (43.2)	.65 (16.5)	1.344 (34.1)	
	10PSS33	1.20 (30.5)	.65 (16.5)	.969 (24.6)	.03	16PSS30	1.70 (43.2)	.75 (19.1)	1.344 (34.1)	
.039	10PSS39	1.60 (40.6)	.65 (16.5)	1.344 (34.1)	.033	16PSS33	1.70 (43.2)	.75 (19.1)	1.344 (34.1)	
.047	10PSS47	1.60 (40.6)	.65 (16.5)	1.344 (34.1)	.039	16PSS39	1.70 (43.2)	.85 (21.6)	1.344 (34.1)	
.056	10PSS56	1.60 (40.6)	.75 (19.1)	1.344 (34.1)	.04	16PSS40	1.70 (43.2)	.85 (21.6)	1.344 (34.1)	
.068	10PSS68	1.60 (40.6)	.75 (19.1)	1.344 (34.1)	.047	16PSS47	1.70 (43.2)	.85 (21.6)	1.344 (34.1)	
.1	10PSP10	1.60 (40.6)	.85 (21.6)	1.344 (34.1)	.05	16PSS50	1.70 (43.2)	.85 (21.6)	1.344 (34.1)	
1600 VDC / 475 VAC*				2000 VDC / 500 VAC*						
.001	16PSD10	1.30 (33.0)	.50 (12.7)	.969 (24.6)	.001	20PSD10	1.30 (33.0)	.50 (12.7)	.969 (24.6)	
.0015	16PSD15	1.30 (33.0)	.50 (12.7)	.969 (24.6)	.0015	20PSD15	1.30 (33.0)	.50 (12.7)	.969 (24.6)	
.002	16PSD20	1.30 (33.0)	.50 (12.7)	.969 (24.6)	.0022	20PSD22	1.30 (33.0)	.50 (12.7)	.969 (24.6)	
.0022	16PSD22	1.30 (33.0)	.50 (12.7)	.969 (24.6)	.0033	20PSD33	1.30 (33.0)	.55 (14.0)	.969 (24.6)	
.003	16PSD30	1.30 (33.0)	.50 (12.7)	.969 (24.6)	.0047	20PSD47	1.30 (33.0)	.60 (15.2)	.969 (24.6)	
.0033	16PSD33	1.30 (33.0)	.50 (12.7)	.969 (24.6)	.0056	20PSD56	1.30 (33.0)	.65 (16.5)	.969 (24.6)	
.0039	16PSD39	1.30 (33.0)	.50 (12.7)	.969 (24.6)	.0068	20PSD68	1.30 (33.0)	.65 (16.5)	.969 (24.6)	
.004	16PSD40	1.30 (33.0)	.50 (12.7)	.969 (24.6)	.0082	20PSD82	1.30 (33.0)	.70 (17.8)	.969 (24.6)	
.0047	16PSD47	1.30 (33.0)	.50 (12.7)	.969 (24.6)	.027	20PSS27	1.70 (43.2)	.95 (24.1)	1.344 (34.1)	

^{* 60} Hz, RMS

Dimensions in inches, metric (mm) in parenthesis.

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