



# ADVANCE COMPONENTS AND INSTRUMENTS PVT LTD

(An ISO 9001 Company)

Manufacturers of PLASTIC FILM CAPACITORS

IN TECHNICAL COLLABORATION WITH GOULD ADVANCE LIMITED U.K.

Registered Office & Factory: 3A-3A/1, Belavadi Indl.Area, Mysore – 570 018. INDIA.

Telephone: (0821) – 2402307, 2402301 Fax: (0821) - 5282058

Email: advcaps@vsnl.com Website: www.advance-capacitors.com

\*\*Mumbai Office: Tel - (022) 22073507. Email: advcapsmumbai@eth.net

## GENERAL :

- Non-Polar
- Self –Healing
- Epoxy Resin Sealed
- Tin-Electroplated Lead
- Non-Inductive
- Humidity, Shock, Vibration Proof

## APPLICATIONS:

- Instrumentation
- Filter, Bypass
- Input to High Impedance Circuits
- Meter Damping
- R-C Circuits
- Communications
- Computers, Switching
- Replacement for Paper Capacitors

## STYLES :

- Type- - Cylindrical, Tape Wrap, Epoxy End Fill, Axial Lead
- Type – - Rectangular, Plastic Case, Epoxy Fill, Radial Lead

## STANDARDS:

JSS 50204

## SPECIFICATIONS:

All measurements are made at 20 °C. Capacitance and Tan Delta are measured at 1KHz.

Temperature Range	: -55° C to 125° C
Power Factor (Tan delta)	: <= 0.008 (Typical 0.006)
Insulation Resistance	: for Capacitors <=0.33uF > 30000 Mohms for Capacitors > 0.33uF > 10000 M ohms*µfd seconds
Test Voltage	: 1.6 x Rated dc voltage
Climatic Category	: 55/125/56
Voltage derating	: 1.5% per °C for use above 85 °C
Soldering	: 5 Seconds at 250 °C
Tolerance	: ±20%, ±10%, ±5%



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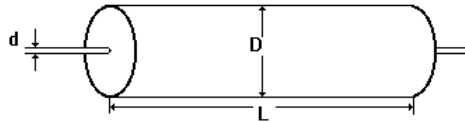
## METALLISED POLYESTER CAPACITORS - JSS 50204 CPM 07

**Type** : Cylindrical Wrap / Epoxy Fill, Axial Lead.

These capacitors are cylindrical and are provided with yellow thermosetting tape outer wrap. The ends are sealed with epoxy resin. These capacitors conform to JSS 50204 CPM 07

**Dimensions** (Maximum in mm)

Voltage	63 VDC			100 VDC			160 VDC			250 VDC			400 VDC			630 VDC			1000 VDC		
	D	L	d	D	L	D	D	L	d	D	L	D	D	L	d	D	L	D	D	L	D
0.0100	6.5	16.5	0.6	6.5	16.5	0.6	6.5	16.5	0.6	6.5	16.5	0.6	6.5	16.5	0.6	6.5	16.5	0.6	9.0	20.5	0.8
0.0150	6.5	16.5	0.6	6.5	16.5	0.6	6.5	16.5	0.6	6.5	16.5	0.6	6.5	16.5	0.6	6.5	16.5	0.6	10.0	20.5	0.8
0.0220	6.5	16.5	0.6	6.5	16.5	0.6	6.5	16.5	0.6	6.5	16.5	0.6	6.5	16.5	0.6	7.5	16.5	0.6	10.0	20.5	0.8
0.0330	6.5	16.5	0.6	6.5	16.5	0.6	6.5	16.5	0.6	6.5	16.5	0.6	6.5	16.5	0.6	8.0	20.5	0.6	12.0	20.5	0.8
0.0470	6.5	16.5	0.6	6.5	16.5	0.6	6.5	16.5	0.6	6.5	16.5	0.6	7.5	16.5	0.6	8.0	20.5	0.6	12.0	20.5	0.8
0.0680	6.5	16.5	0.6	6.5	16.5	0.6	6.5	16.5	0.6	6.5	16.5	0.6	7.5	20.5	0.6	12.0	20.5	0.8	12.0	29.0	0.8
0.1000	6.5	16.5	0.6	6.5	16.5	0.6	6.5	16.5	0.6	6.5	16.5	0.6	8.0	20.5	0.6	9.0	29.0	0.8	13.0	29.0	0.8
0.1500	6.5	16.5	0.6	6.5	16.5	0.6	6.5	16.5	0.6	7.5	16.5	0.6	9.0	20.5	0.8	10.0	29.0	0.8	16.0	34.0	0.8
0.2200	6.5	16.5	0.6	7.5	16.5	0.6	7.5	16.5	0.6	7.5	16.5	0.6	9.0	29.0	0.8	12.0	29.0	0.8	18.0	34.0	0.8
0.3300	6.5	16.5	0.6	7.5	16.5	0.6	7.5	16.5	0.6	9.0	20.5	0.8	10.0	29.0	0.8	13.0	34.0	0.8	19.0	34.0	0.8
0.4700	7.5	16.5	0.6	8.0	20.5	0.6	8.0	20.5	0.6	10.0	20.5	0.8	12.0	29.0	0.8	15.0	34.0	0.8	20.0	34.0	0.8
0.6800	7.0	20.5	0.6	9.0	20.5	0.8	9.0	20.5	0.8	9.0	29.0	0.8	13.0	34.0	0.8	17.0	34.0	0.8	21.0	34.0	0.8
1.0000	8.0	20.5	0.6	10.0	20.5	0.8	10.0	20.5	0.8	11.0	29.0	0.8	15.0	34.0	0.8	20.0	34.0	0.8	18.0	45.0	0.8
1.5000	10.0	20.5	0.8	10.0	29.0	0.8	12.0	29.0	0.8	12.0	29.0	0.8	17.0	34.0	0.8	23.0	34.0	0.8	23.0	45.0	0.8
2.2000	10.0	29.0	0.8	12.0	29.0	0.8	13.0	29.0	0.8	13.0	29.0	0.8	20.0	34.0	0.8	27.0	34.0	0.8			
3.3000	11.0	29.0	0.8	13.0	29.0	0.8	16.0	34.0	0.8	16.0	34.0	0.8	23.0	34.0	0.8						
4.7000	13.0	29.0	0.8	15.0	34.0	0.8	18.0	34.0	0.8	18.0	34.0	0.8	27.0	34.0	0.8						
6.8000	14.0	34.0	0.8	17.0	34.0	0.8	21.0	34.0	0.8	21.0	34.0	0.8									
10.000	16.0	34.0	0.8	18.0	34.0	0.8	22.0	34.0	0.8	22.0	34.0	0.8									





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## METALLISED POLYESTER CAPACITORS – JSS 50204 CPM 08

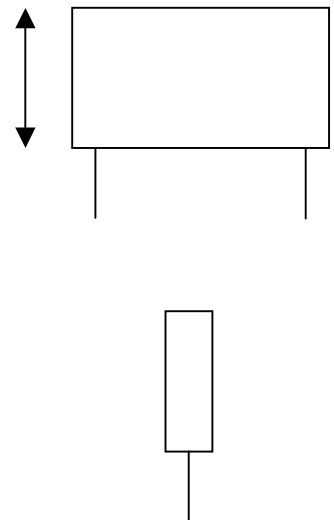
**Type** : Rectangular, Plastic Case/Epoxy Fill, Radial lead

These capacitors are rectangular in shape and are provided with radial leads for easy PCB mounting and a high packaging density. These are encased in flame retardant Nylon or PBT cases and completely potted in epoxy to provide superior moisture, shock and vibration protection.

### Dimensions (Maximum in mm)

Case Size	W	L	H	C	d	Case Size	W	L	H	C	d
11	4	10.5	9.0	7.5	0.6	35	7	18	13.1	15.2	0.6
12	5	10.5	10.5	7.5	0.6	36	7.5	18	14	15.2	0.6
13	6	10.5	11.5	7.5	0.6	37	9	18	14.5	15.2	0.8
21	4	13	9.5	10.2	0.6	41	7.5	27.0	17.0	22.5	0.8
22	5	13	10.5	10.2	0.6	42	8.5	27.0	18.5	22.5	0.8
23	6	13	11	10.2	0.6	43	10.0	26.0	18.5	22.5	0.8
24	6.8	13	13	10.2	0.6	51	10.5	31.0	21.0	27.5	0.8
31	5	18	11	15.2	0.6	52	13.5	32.0	23.5	27.5	0.8
32	5.5	18	11	15.2	0.6	61	17.0	41.5	29.0	37.5	0.8
33	6	18	12	15.2	0.6	62	14.0	43.0	24.0	37.5	0.8
34	6.5	18	12	15.2	0.6						

Voltage	63V	100V	160V	250V	400V	630V	1000V
Part Type							
Value	Case Size	Case Size	Case Size	Case Size	Case Size	Case Size	Case Size
0.0100	21	21	21	21	21	21	32
0.0150	21	21	21	21	21	22	32
0.0220	21	21	21	21	21	23	34
0.0330	21	21	21	21	22	32	42
0.0470	21	21	21	21	23	34	42
0.0680	21	21	21	21	32	36	42
0.1000	21	21	21	22	35	37	43
0.1500	21	21	21	32	37	42	51
0.2200	22	22	22	32	42	43	51
0.3300	22	32	34	34	42	51	
0.4700	23	32	35	37	42	52	
0.6800	24	35	37	42	51	52	
1.0000	34	35	37	42	51	52	
1.5000	35	42	42	51	52		
2.2000	37	42	43	51			
3.3000	42	43	51	52			
4.7000	42	51	51				
6.8000	43	52	52				
10.000	51	52					





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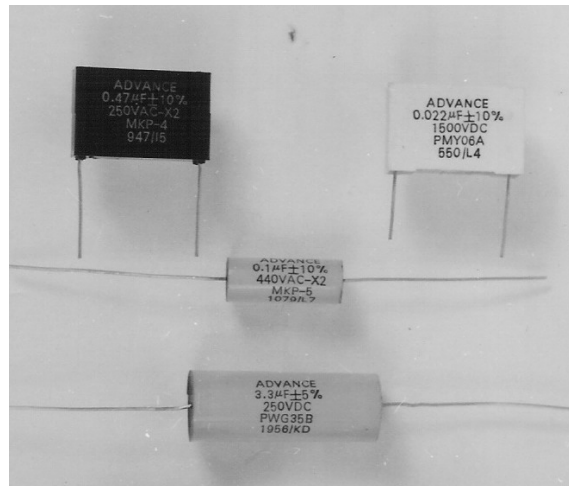
### METALLISED POLYESTER CAPACITORS – AXIAL MINIATURE TYPE

**Type** : Cylindrical Wrap / Epoxy Fill, Axial Lead

These capacitors are cylindrical and are provided with yellow thermosetting tape outer wrap. The ends are sealed with epoxy resin. Electrically these capacitors conform to JSS 50204 CPM 07

**Dimensions** (in mm) : Body Diameter : 6.5mm max. Length : 11mm max.  
Lead Diameter: 0.6mm Lead Length: 30mm min.

Voltage VDC	Capacitance Range $\mu\text{F}$	Voltage VDC	Capacitance Range $\mu\text{F}$
63	0.001 to 0.15	400	0.001 to 0.01
100	0.001 to 0.1	630	0.001 to 0.0068
160	0.001 to 0.1	1000	0.001 to 0.0068
250	0.001 to 0.047		





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## METALLISED POLYESTER CAPACITORS – RADIAL MINIATURE TYPE

**Type** : Rectangular, Plastic Case/Epoxy Fill, Radial lead

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**Dimensions** (in mm) :

Capacitance $\mu\text{F}$	63V	100V	160V	250V	400V	630V
	Case Size	Case Size	Case Size	Case Size	Case Size	Case Size
0.0010	11	11	11	11	11	11
0.0015	11	11	11	11	11	11
0.0022	11	11	11	11	11	11
0.0033	11	11	11	11	11	11
0.0047	11	11	11	11	11	11
0.0068	11	11	11	11	11	11
0.0100	11	11	11	11	11	11
0.0150	11	11	11	11	11	12
0.0220	11	11	11	11	12	
0.0330	11	11	11	12	12	
0.0470	11	11	11	12		
0.0680	11	11	11	12		
0.1000	11	11	12			
0.1500	11	11	12			
0.2200	12	12	12			
0.3300	13	13				
0.4700	13	13				
0.6800	13					

Note: Please refer to page no.3 for Case sizes