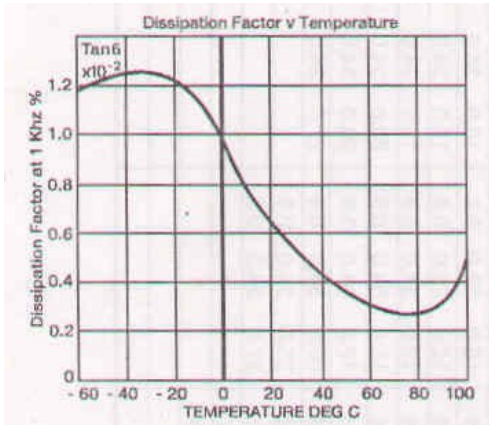


Advance Metallised Polyester Capacitors



GENERAL :

- Non-Polar
- Non-Inductive
- Self-Healing
- Higher Capacitance/ Voltage on request
- Epoxy Resin Sealed
- Humidity, Shock, Vibration Proof
- Tin-Electroplated Lead

APPLICATIONS:

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

STYLES :

- Type- MWF - Cylindrical, Tape Wrap, Epoxy End Fill, Axial Lead
- Type – MF - Rectangular, Plastic Case, Epoxy Fill, Radial Lead
- Type- MMWF -Miniature Cylindrical, Tape Wrap, Epoxy End Fill, Axial Lead
- Type –MMF – Miniature Rectangular, Plastic Case, Epoxy Fill, Radial Lead
- Type – MWOV - Oval Shape, Tape Wrap, Axial Lead
- Type- MMMF – Miniature Rectangular, Radial lead, 5mm pitch

STANDARDS:

JSS 50204 MIL-C-27287 BS 2011 IEC 384-2 IS 9256

SPECIFICATIONS:

All measurements are made at 20°C

Capacitance and Tan Delta are measured at 1kHz.

Temperature Range : -55°C + 125°C

Power Factor (Tan delta) : ≤ 0.008 (Typical 0.006)

Insulation Resistance : Capacitance $\leq 0.33\mu\text{F}$ > 30000 $\text{M}\Omega \cdot \mu\text{F}$
 Capacitance $> 0.33\mu\text{F}$ > 10000 $\text{M}\Omega \cdot \mu\text{F}$ second

Test Voltage : 1.6 x rated dc voltage

Climatic Category : 55/125/56

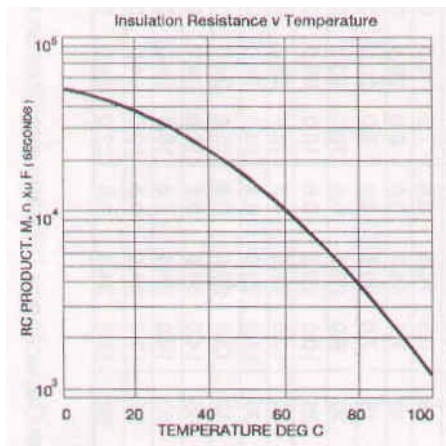
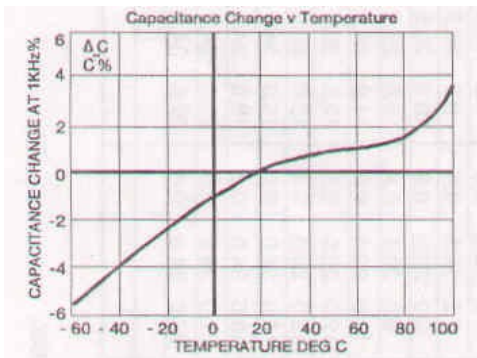
Voltage derating : 1.5% per °C for use above 85 °C

Soldering : 5 Seconds at 250 °C

Tolerance : $\pm 20\%$, $\pm 10\%$, $\pm 5\%$

Closer Tolerance available on request

Metallised Polyphenylene Sulphide or Metallised Polypropylene is recommended for Closer Tolerance



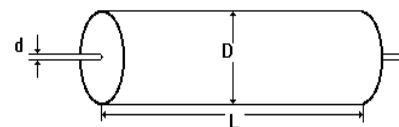
METALLISED POLYESTER CAPACITORS - JSS 50204 CPM 07 (RoHS Compliant)

Type MWF : 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

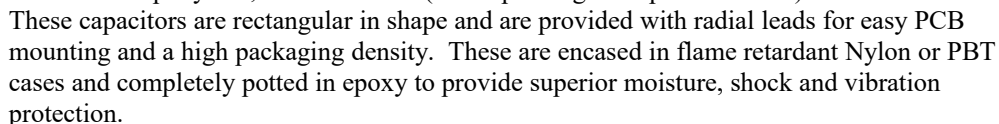
Dimensions (Max) in mm



Voltage	WD / 63 VDC			WH / 100 VDC			WR / 160 VDC			WG / 250 VDC			WW/ 400 VDC			WK / 630 VDC			WX / 1000 VDC		
Value	D	L	d	D	L	d	D	L	d	D	L	d	D	L	d	D	L	d	D	L	d
0.0010	6.5	11	0.6	6.5	11	0.6	6.5	11	0.6	6.5	11	0.6	6.5	11	0.6	6.5	11	0.6	6.5	11	0.6
0.0015	6.5	11	0.6	6.5	11	0.6	6.5	11	0.6	6.5	11	0.6	6.5	11	0.6	6.5	11	0.6	6.5	11	0.6
0.0022	6.5	11	0.6	6.5	11	0.6	6.5	11	0.6	6.5	11	0.6	6.5	11	0.6	6.5	11	0.6	6.5	11	0.6
0.0033	6.5	11	0.6	6.5	11	0.6	6.5	11	0.6	6.5	11	0.6	6.5	11	0.6	6.5	11	0.6	6.5	11	0.6
0.0047	6.5	11	0.6	6.5	11	0.6	6.5	11	0.6	6.5	11	0.6	6.5	11	0.6	6.5	11	0.6	6.5	11	0.6
0.0068	6.5	11	0.6	6.5	11	0.6	6.5	11	0.6	6.5	11	0.6	6.5	11	0.6	6.5	11	0.6	6.5	11	0.6
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	9.5	20.5	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	20.5	0.8	12.0	29.0	0.8	13.0	29.0	0.8	13.0	34.0	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									
15.000	17.0	34.0	0.8	19.0	34.0	0.8															
22.000	19.0	34.0	0.8	22.0	34.0	0.8															

Note: Higher Capacitance / Voltage available on request

Type MF : Rectangular, Plastic Case/Epoxy Fill, Radial lead (MPM printing on capacitors - MF)



Dimensions (max) in mm																				
Voltage	63V					100V					160V					250V				
Val	W	L	H	P	d	W	L	H	P	d	W	L	H	P	d	W	L	H	P	d
0.0010	4	10.5	9	7.5	0.6	4	10.5	9	7.5	0.6	4	10.5	9	7.5	0.6	4	10.5	9	7.5	0.6
0.0015	4	10.5	9	7.5	0.6	4	10.5	9	7.5	0.6	4	10.5	9	7.5	0.6	4	10.5	9	7.5	0.6
0.0022	4	10.5	9	7.5	0.6	4	10.5	9	7.5	0.6	4	10.5	9	7.5	0.6	4	10.5	9	7.5	0.6
0.0033	4	10.5	9	7.5	0.6	4	10.5	9	7.5	0.6	4	10.5	9	7.5	0.6	4	10.5	9	7.5	0.6
0.0047	4	10.5	9	7.5	0.6	4	10.5	9	7.5	0.6	4	10.5	9	7.5	0.6	4	10.5	9	7.5	0.6
0.0068	4	10.5	9	7.5	0.6	4	10.5	9	7.5	0.6	4	10.5	9	7.5	0.6	4	10.5	9	7.5	0.6
0.0100	4	10.5	9	7.5	0.6	4	10.5	9	7.5	0.6	4	10.5	9	7.5	0.6	4	10.5	9	7.5	0.6
	4	13	9	10.2	0.6	4	13	9	10.2	0.6	4	13	9	10.2	0.6	4	13	9	10.2	0.6
0.0150	4	10.5	9	7.5	0.6	4	10.5	9	7.5	0.6	4	10.5	9	7.5	0.6	4	10.5	9	7.5	0.6
	4	13	9	10.2	0.6	4	13	9	10.2	0.6	4	13	9	10.2	0.6	4	13	9	10.2	0.6
0.0220	4	10.5	9	7.5	0.6	4	10.5	9	7.5	0.6	4	10.5	9	7.5	0.6	4	10.5	9	7.5	0.6
	4	13	9	10.2	0.6	4	13	9	10.2	0.6	4	13	9	10.2	0.6	4	13	9	10.2	0.6
0.0330	4	10.5	9	7.5	0.6	4	10.5	9	7.5	0.6	4	10.5	9	7.5	0.6	5	10.5	11	7.5	0.6
	4	13	9	10.2	0.6	4	13	9	10.2	0.6	4	13	9	10.2	0.6	4	13	9	10.2	0.6
0.0470	4	10.5	9	7.5	0.6	4	10.5	9	7.5	0.6	4	10.5	9	7.5	0.6	5	10.5	11	7.5	0.6
	4	13	9	10.2	0.6	4	13	9	10.2	0.6	4	13	9	10.2	0.6	4	13	9	10.2	0.6
0.0680	4	10.5	9	7.5	0.6	4	10.5	9	7.5	0.6	4	10.5	9	7.5	0.6	5	10.5	11	7.5	0.6
	4	13	9	10.2	0.6	4	13	9	10.2	0.6	4	13	9	10.2	0.6	4	13	9	10.2	0.6
0.1000	4	10.5	9	7.5	0.6	2.3	6.12	7	5.0	0.5	5	10.5	11	7.5	0.6	6	10.5	12	7.5	0.6
	4	13	9	10.2	0.6	4	10.5	9	7.5	0.6	4	13	9	10.2	0.6	5	10.5	11	10.2	0.6
						4	13	9	10.2	0.6										
0.1500	4	10.5	9	7.5	0.6	4	10.5	9	7.5	0.6	5	10.5	11	7.5	0.6	5.5	18	11	15.2	0.6
	4	13	9	10.2	0.6	4	13	9	10.2	0.6	4	13	9	10.2	0.6	4	13	9	10.2	0.6
0.2200	2.3	6.12	7	5.0	0.5	5	10.5	11	7.5	0.6	5	10.5	11	7.5	0.6	5.5	18	11	15.2	0.6
	5	10.5	11	7.5	0.6	5	13.0	11	10.2	0.6	5	13.0	11	10.2	0.6					
	5	13	11	10.2	0.6															
0.3300	6	10.5	12	7.5	0.6	6	10.5	12	7.5	0.6	6	18	12	15.2	0.6	6	18	12	15.2	0.6
	5	13.0	11	10.2	0.6	5.5	18	11	15.2	0.6										
0.4700	2.3	6.12	7	5.0	0.5	5	7	10	5.0	0.6	7	18	14	15.2	0.6	8	18	15	15.2	0.8
	6	10.5	12	7.5	0.6	6	10.5	12	7.5	0.6										
	6	13	12	10.2	0.6	5.5	18	11	15.2	0.6										
0.6800						6	7.2	10	5.0	0.6	8	18	15	15.2	0.8	8.5	26.5	18.5	22.5	0.8
	6	10.5	12	7.5	0.6	7	18	14	15.2	0.6										
	6.8	13	12	10.2	0.6															

Voltage	63V					100V					160V					250V				
Val	W	L	H	P	d	W	L	H	P	d	W	L	H	P	d	W	L	H	P	d
1.0000	6	18	12	15.2	0.6	7	18	14	15.2	0.6	8	18	15	15.2	0.8	8.5	26.5	18.5	22.5	0.8
1.5000	7	18	14	15.2	0.6	8.5	26.5	18.5	22.5	0.8	8.5	26.5	18.5	22.5	0.8	11	32	20	27.5	0.8
2.2000	8	18	15	15.2	0.8	8.5	26.5	18.5	22.5	0.8	10	26.5	18.5	22.5	0.8	11	32	20	27.5	0.8
3.3000	8.5	26.5	18.5	22.5	0.8	10	26.5	18.5	22.5	0.8	11	32	20	27.5	0.8	15.5	32	24.5	27.5	0.8
4.7000	8.5	26.5	18.5	22.5	0.8	11	32	20	27.5	0.8	11	32	20	27.5	0.8					
6.8000	10	26.5	18.5	22.5	0.8	15.5	32	24.5	27.5	0.8	15.5	32	24.5	27.5	0.8					
10.000	11	32	20	27.5	0.8	15.5	32	24.5	27.5	0.8										

Voltage	400V					630V					1000V				
Value	W	L	H	P	d	W	L	H	P	d	W	L	H	P	d
0.0010	4	10.5	9	7.5	0.6	4	10.5	9	7.5	0.6					
0.0015	4	10.5	9	7.5	0.6	4	10.5	9	7.5	0.6					
0.0022	4	10.5	9	7.5	0.6	4	10.5	9	7.5	0.6					
0.0033	4	10.5	9	7.5	0.6	4	10.5	9	7.5	0.6					
0.0047	4	10.5	9	7.5	0.6	4	10.5	9	7.5	0.6					
0.0068	4	10.5	9	7.5	0.6	4	10.5	9	7.5	0.6					
0.0100	4	10.5	9	7.5	0.6	4	10.5	9	7.5	0.6	5.5	18.0	11	15.2	0.6
	4	13	9	10.2	0.6	4	13	9	10.2	0.6					
0.0150	4	10.5	9	7.5	0.6	5	10.5	11	7.5	0.6	5.5	18.0	11	15.2	0.6
	4	13	9	10.2	0.6	5	13.0	11	10.2	0.6					
0.0220	5	10.5	11	7.5	0.6	6	13	12	10.2	0.6	7	18	14	15.2	0.6
	4	13	9	10.2	0.6										
0.0330	5	10.5	11	7.5	0.6	6	13	12	10.2	0.6	8.5	26.5	18.5	22.5	0.8
	5	13.0	11	10.2	0.6										
0.0470	6	13	12	10.2	0.6	6	13	12	10.2	0.6	8.5	26.5	18.5	22.5	0.8
0.0680	5.5	18	11	15.2	0.6	8	18	15	15.2	0.8	8.5	26.5	18.5	22.5	0.8
0.1000	7	18	14	15.2	0.6	8	18	15	15.2	0.8	10	26.5	18.5	22.5	0.8
0.1500	8	18	15	15.2	0.8	8.5	26.5	18.5	22.5	0.8	11	32	20	27.5	0.8
0.2200	8.5	26.5	18.5	22.5	0.8	10	26.5	18.5	22.5	0.8	11	32	20	27.5	0.8
0.3300	8.5	26.5	18.5	22.5	0.8	11	32	20	27.5	0.8	15.5	32	24.5	27.5	0.8
0.4700	8.5	26.5	18.5	22.5	0.8	15.5	32	24.5	27.5	0.8	17	41.5	29	37.5	0.8
0.6800	11	32	20	27.5	0.8	15.5	32	24.5	27.5	0.8	17	41.5	29	37.5	0.8
1.0000	11	32	20	27.5	0.8	14	44	24	37.5	0.8	17	41.5	29	37.5	0.8
1.5000	15.5	32	24.5	27.5	0.8										
2.2000	15.5	32	24.5	27.5	0.8										

*Tolerance codes: $\pm 20\%$ - M, $\pm 10\%$ - K, $\pm 5\%$ - J, $\pm 2.5\%$ - H, $\pm 2\%$ - G, $\pm 1\%$ - F, $\pm 0.5\%$ - E

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