



METALLISED POLYESTER CAPACITORS

MER SERIES

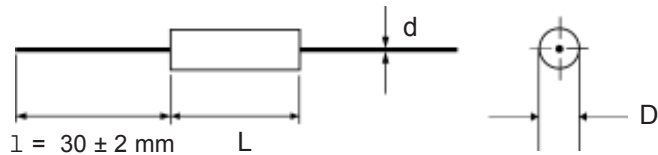
APPLICATION : In all electronic circuits for coupling / de-coupling, filtering, by-passing, blocking, low frequency and low pulse operation.

TECHNICAL DETAILS

- Dielectric** : Polyethylene
Terephthalate
- Electrodes** : Vacuum deposited
aluminium
- Ref. Standard** : JSS 50204 & IEC 384-1&2
- Encapsulation** : Wrapped and epoxy
end filled (MER)
- Flame Retardancy** : Conforming to UL 94 V-0
- Environmental** : 55/125/56
- Category**
- Capacitance** : $\pm 10\%$
- Tolerance**
- Test Voltage** : $1.6 \times V_r$ (2 secs.)

Dissipation factor :

at f	$C \leq 0.1$ mfd.	0.1 mfd $< C \leq 1.0$ mfd.	$C > 1.0$ mfd.
1 kHz	$\leq 0.8\%$	$\leq 0.8\%$	$\leq 1.0\%$
10 kHz	$\leq 1.5\%$	$\leq 1.5\%$	-
100 kHz	$\leq 3.0\%$	-	-



$d = 0.6$ for $D < 8$, $d = 0.8$ for $D > 8$

Insulation Resistance :

$C > 0.33$ mfd.		$C \leq 0.33$ mfd.	
$V_r > 100$ V	$V_r \leq 100$ V	$V_r > 100$ V	$V_r \leq 100$ V
≥ 10000 secs.	≥ 5000 secs.	≥ 30000 M Ω	≥ 15000 M Ω

$V_t = 50$ V if $V_r < 100$ V
 $= 100$ V if 100 V $\leq V_r < 500$ V
 $= 500$ V if $V_r > 500$ V

Max. Pulse Rise Time (dv/dt) :

Vr Volts	Length (mm)				
	13	16	21	28	33
63	-	3	1.5	1	1
100	6	6	3	2	1
250	6	11	7	4	3
400	30	20	10	5.5	5
630	40	30	15	8	7
1000	-	60	25	15	10



ISO 9001

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Dimensions (max. in mm) :

Capacitance mfd	63 VDC		100 VDC		250 VDC		400 VDC		630 VDC		1000 VDC	
	L	D	L	D	L	D	L	D	L	D	L	D
0.001									13	5.5	16	5.5
0.0015									13	5.5	16	5.5
0.0022									13	5.5	16	6.0
0.0033									13	5.5	16	6.0
0.0047									16	5.5	21	6.0
0.0068							13	5.5	16	6.0	21	6.5
0.01							13	5.5	16	6.0	21	7.0
0.015					13	5.5	16	5.5	16	6.5	21	8.0
0.022					13	5.5	16	6.0	16	7.0	21	9.0
0.033					16	5.5	16	6.5	21	7.5	21	10.5
0.047					16	6.0	16	7.0	21	8.0	21	11.5
0.068			13	5.5	16	6.0	21	7.0	21	9.0	28	11.5
0.1	13	5.5	16	5.5	16	6.0	21	8.0	28	8.5	28	12.0
0.15	13	6.0	16	6.0	16	7.5	21	8.5	28	10.0	33	12.0
0.22	16	6.0	16	6.0	16	8.5	28	8.5	28	11.5	33	13.0
0.33	16	6.5	16	6.5	21	8.5	28	10.0	33	12.0	33	15.5
0.47	16	7.5	21	7.0	21	9.0	28	11.5	33	14.0	33	18.0
0.68	21	7.0	21	7.0	28	9.0	33	12.0	33	16.0	33	21.0
1.0	21	8.0	21	8.0	28	10.0	33	13.5	33	18.5	33	25.0
1.5	21	9.0	28	8.5	28	11.0	33	17.0	33	21.5	33	31.0
2.2	28	9.5	28	9.5	33	12.0	33	20.5	33	26.5		
3.3	28	11.0	28	11.0	33	14.0	33	23.5	33	32.0		
4.7	28	12.5	33	12.0	33	16.0	33	27.5				
6.8	33	14.0	33	14.0	33	18.0						
10.0	33	15.5	33	15.5	33	22.0						



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