



METALLISED POLYESTER CAPACITORS (5 & 7.5 mm pitch)

MEB / MED 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

Dissipation factor :

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

Encapsulation : 1. Plastic box and epoxy (MEB)
2. Epoxy dip coated (MED)

Flame Retardancy : Conforming to UL 94 V-0

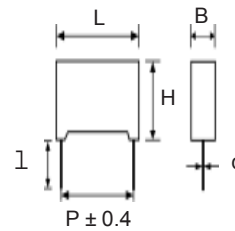
Environmental : 55/125/56

Category

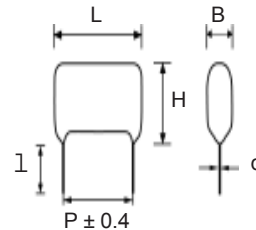
Capacitance : ±10 %

Tolerance

Test Voltage : 1.6 x Vr (2 secs.)



$l = 6.0 \pm 1 \text{ mm}$



$l = 8.0 \pm 1 \text{ mm}$

Insulation Resistance :

C > 0.33 mfd.		C ≤ 0.33 mfd.	
Vr > 100 V	Vr ≤ 100 V	Vr > 100 V	Vr ≤ 100 V
≥ 10000 secs.	≥ 5000 secs.	≥ 30000 MΩ	≥ 15000 MΩ

Vt = 50 V if Vr < 100 V
= 100 V if 100 V ≤ Vr < 500 V
= 500 V if Vr > 500 V

Max. Pulse Rise Time (dv/dt) :

Vr Volts	Pitch (mm)	
	5	7.5
50 / 63	7.5	-
100	10	6
250	-	6
400	-	30
630	-	40
1000	-	-

L	P	d
7.2	5.0	0.5
10.5	7.5	0.6



ISO 9001

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METALLISED POLYESTER CAPACITORS
(5 & 7.5 mm pitch)

**MEB / MED
SERIES**

Dimensions (max. in mm) :

Capacitance mfd	5 mm pitch						7.5 mm pitch											
	63 VDC			100 VDC			100 VDC			250 VDC			400 VDC			630 VDC		
	L	B	H	L	B	H	L	B	H	L	B	H	L	B	H	L	B	H
0.001	7.2	2.5	6.5	7.2	2.5	6.5										10.5	4.0	9.0
0.0015	7.2	2.5	6.5	7.2	2.5	6.5										10.5	4.0	9.0
0.0022	7.2	2.5	6.5	7.2	2.5	6.5										10.5	4.0	9.0
0.0033	7.2	2.5	6.5	7.2	2.5	6.5										10.5	4.0	9.0
0.0047	7.2	2.5	6.5	7.2	2.5	6.5							10.5	4.0	9.0	10.5	4.0	9.0
0.0068	7.2	2.5	6.5	7.2	2.5	6.5							10.5	4.0	9.0	10.5	5.0	9.5
0.01	7.2	2.5	6.5	7.2	2.5	6.5							10.5	4.0	9.0	10.5	5.0	9.5
0.015	7.2	2.5	6.5	7.2	2.5	6.5							10.5	4.0	9.0	10.5	5.0	9.5
0.022	7.2	2.5	6.5	7.2	2.5	6.5				10.5	4.0	9.0	10.5	5.0	9.0	10.5	6.0	11.0
0.033	7.2	2.5	6.5	7.2	2.5	6.5				10.5	4.0	9.0	10.5	5.0	9.5			
0.047	7.2	2.5	6.5	7.2	2.5	6.5				10.5	4.0	9.0	10.5	5.0	9.5			
0.068	7.2	2.5	6.5	7.2	2.5	6.5	10.5	4.0	9.0	10.5	5.0	9.0	10.5	6.0	11.0			
0.1	7.2	2.5	6.5	7.2	3.5	7.5	10.5	4.0	9.0	10.5	5.0	9.5						
0.15	7.2	2.5	6.5	7.2	5.0	10.0	10.5	4.0	9.0	10.5	5.0	9.5						
0.22	7.2	2.5	6.5	7.2	6.0	11.0	10.5	4.0	9.0	10.5	6.0	11.0						
0.33	7.2	3.5	7.5	7.2	6.0	11.0	10.5	5.0	9.5									
0.47	7.2	3.5	8.0	7.2	8.0	13.0	10.5	6.0	11.0									
0.68	7.2	4.5	9.5															
1.0	7.2	5.0	10.0															
1.5	7.2	6.0	11.0															
2.2	7.5	8.0	13.0															



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METALLISED POLYESTER CAPACITORS (10 to 27.5 mm pitch)

MEB / MED 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 : 1. Plastic box and epoxy (MEB)
2. Epoxy dip coated (MED)

Dissipation factor :

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

Flame Retardancy : Conforming to UL 94 V-0

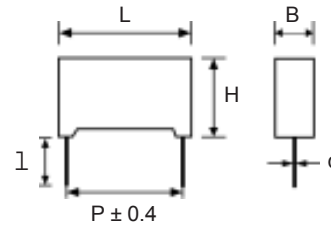
Environmental : 55/125/56

Category

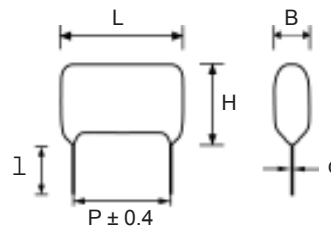
Capacitance : ±10 %

Tolerance

Test Voltage : 1.6 x Vr (2 secs.)



$$l = 6.0 \pm 1 \text{ mm}$$



$$l = 8.0 \pm 1 \text{ mm}$$

Insulation Resistance :

C > 0.33 mfd.		C ≤ 0.33 mfd.	
Vr > 100 V	Vr ≤ 100 V	Vr > 100 V	Vr ≤ 100 V
≥ 10000 secs.	≥ 5000 secs.	≥ 30000 MΩ	≥ 15000 MΩ

Vt = 50 V if Vr < 100 V
= 100 V if 100 V ≤ Vr < 500 V
= 500 V if Vr > 500 V

L	P	d
13	10	0.6
18	15	0.8
27	22.5	0.8
31	27.5	0.8

Max. Pulse Rise Time (dv/dt) :

Vr Volts	Pitch (mm)			
	10	15	22.5	27.5
63	3	1.5	1	1
100	6	3	2	1
250	11	7	4	3
400	20	10	5.5	5
630	30	15	8	7
1000	60	25	15	10



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METALLISED POLYESTER CAPACITORS (10 to 27.5 mm pitch)

MEB / MED SERIES

Dimensions (max. in mm) :

Capacitance mfd	63 VDC			100 VDC			250 VDC			400 VDC			630 VDC			1000 VDC		
	L	B	H	L	B	H	L	B	H	L	B	H	L	B	H	L	B	H
0.001																13	4.0	9
0.0015																13	4.0	9
0.0022																13	4.0	9
0.0033																13	4.0	9
0.0047													13	4.0	9	13	4.0	9
0.0068										13	4.0	9	13	4.0	9	13	5.0	11
0.01							13	4.0	9	13	4.0	9	13	4.0	9	18	5.0	11
0.015							13	4.0	9	13	4.0	9	13	4.0	9	18	5.0	11
0.022							13	4.0	9	13	4.0	9	13	5.0	11	18	6.5	12
0.033				13	4.0	9	13	4.0	9	13	5.0	11	18	5.0	11	26	6.5	13
0.047				13	4.0	9	13	4.0	9	18	5.0	11	18	6.5	12	26	6.5	13
0.068	13	4.0	9	13	4.0	9	13	4.0	9	18	5.0	11	18	7.5	14	26	6.5	13
0.1	13	4.0	9	13	4.0	9	*18	5.0	11	18	6.5	12	26	6.5	13	27	8.5	14
0.15	13	4.0	9	13	4.0	9	18	5.0	11	18	7.5	14	26	6.5	13	31	8.5	16
0.22	13	4.0	9	13	4.0	9	18	5.0	11	26	6.5	13	27	8.5	14	31	11.5	21
0.33	13	5.0	11	13	5.0	11	18	6.5	12	26	6.5	13	31	8.5	16	31	14.0	24
0.47	13	5.0	11	18	5.0	11	26	6.5	13	27	8.5	14	31	11.5	21	31	14.0	24
0.68	18	5.0	11	18	5.0	11	26	6.5	13	31	8.5	16	31	14.0	24			
1.0	18	6.5	12	18	6.5	12	26	6.5	13	31	11.5	21	31	15.5	27			
1.5	18	7.5	14	26	6.5	13	31	8.5	16	31	14.0	24						
2.2	18	8.5	15	26	6.5	13	31	8.5	16	31	15.5	27						
3.3	27	8.5	14	27	8.5	14	31	11.5	21									
4.7	31	8.5	18.5	31	8.5	16	31	14.0	24									
6.8	31	10.5	19	31	11.5	21	31	15.5	27									
10.0	31	14.0	24	31	14.0	24												

* Also available in lower pitch



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METALLISED POLYESTER CAPACITORS

MER SERIES

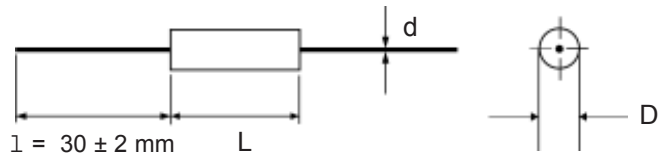
APPLICATION : In all electronic circuits for coupling / de-coupling, filtering, by-passing, blocking, low frequency and low pulse operation.

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	$C \leq 0.1 \text{ mfd.}$	$0.1 \text{ mfd} < C \leq 1.0 \text{ mfd.}$	$C > 1.0 \text{ mfd.}$
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 :

$C > 0.33 \text{ mfd.}$		$C \leq 0.33 \text{ mfd.}$	
$V_r > 100 \text{ V}$	$V_r \leq 100 \text{ V}$	$V_r > 100 \text{ V}$	$V_r \leq 100 \text{ V}$
≥ 10000 secs.	≥ 5000 secs.	≥ 30000 $M\Omega$	≥ 15000 $M\Omega$

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

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



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METALLISED POLYESTER CAPACITORS

MER SERIES

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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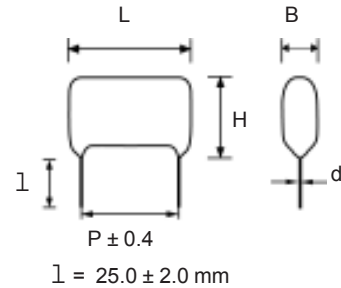
METALLISED POLYPROPYLENE CAPACITORS

MPD SERIES

APPLICATION : In hum-free, step type Electronic Fan Regulator. Premium Quality long life capacitors, with normal features.

TECHNICAL DETAILS

- Dielectric** : Polypropylene
- Electrodes** : Vacuum deposited zinc-aluminium
- Voltage** : 250 VAC
- Ref. Standard** : IEC 384-16
- Encapsulation** : Epoxy dip coated (MPD)
- Flame Retardancy** : Conforming to UL 94 V-0
- Environmental** : 55/105/56
- Category**
- Capacitance** : $\pm 10 \%$
- Tolerance**
- Test Voltage** : 415 VAC
- I. R. at 100 V** : $\geq 30,000$ secs.
- Dissipation factor** : $\leq 2.5 \%$ at 100 kHz



L	P	d
30	27.5	0.8

Dimensions (max. in mm) :

Capacitance mfd .	250 VAC		
	L	B	H
1.0	30	6.5	16.0
1.2	30	7.0	16.5
1.5	30	8.0	17.0
1.8	30	8.5	18.0
2.0	30	9.0	18.5
2.2	30	10.0	19.5
2.4	30	10.5	18.5
2.5	30	11.0	19.0
2.7	30	12.0	19.5
3.0	30	12.0	20.0
3.2	30	13.5	20.0
3.3	30	14.0	20.5
3.4	30	14.0	20.0
3.5	30	14.5	20.5
3.7	30	15.0	21.0
3.8	30	15.0	21.0
4.0	30	16.0	21.5
4.2	30	16.0	21.5
4.5	30	16.0	22.5
4.7	30	16.5	23.0



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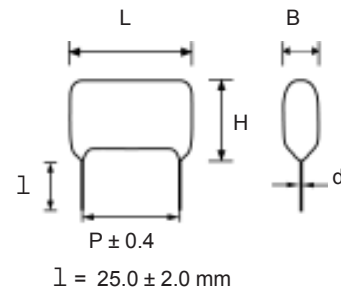
METALLISED POLYPROPYLENE SMALL SIZE CAPACITORS

MPD-SM SERIES

APPLICATION : In hum-free, step type Electronic Fan Regulator. High reliability capacitors, with normal features, specially designed for switch size.

TECHNICAL DETAILS

Dielectric	: Polypropylene
Electrodes	: Vacuum deposited zinc-aluminium
Voltage	: 250 VAC
Ref. Standard	: IEC 384-16
Encapsulation	: Epoxy dip coated (MPD-SM)
Flame Retardancy	: Conforming to UL 94 V-0
Environmental	: 55/105/56
Category	
Capacitance	: $\pm 10 \%$
Tolerance	
Test Voltage	: 415 VAC
I. R. at 100 V	: $\geq 30,000$ secs.
Dissipation factor	: $\leq 2.5 \%$ at 100 kHz



L	P	d
30	27.5	0.8

Dimensions (max. in mm) :

Capacitance mfd.	250 VAC		
	L	B	H
1.0	30	6.0	13.5
1.2	30	6.5	14.5
1.5	30	7.0	16.5
1.8	30	7.5	17.0
2.0	30	8.0	17.5
2.2	30	8.0	20.0
2.4	30	9.0	18.5
2.5	30	9.0	18.5
2.7	30	9.5	19.0
3.0	30	10.5	19.5
3.2	30	10.5	20.0
3.3	30	10.5	21.0
3.4	30	11.0	19.0
3.5	30	12.0	20.0
3.7	30	12.5	20.0
3.8	30	12.5	20.0
4.0	30	13.5	20.0
4.2	30	14.0	20.5
4.3	30	14.0	20.5
4.5	30	14.0	20.0
4.7	30	15.5	20.5



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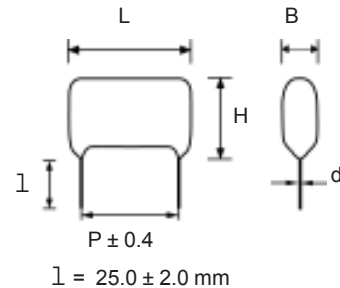
METALLISED POLYESTER CAPACITORS (SWITCH SIZE)

MED-SW SERIES

APPLICATION : In hum-free, step type Electronic Fan Regulator. High reliability capacitors, with normal features, specially designed for switch size.

TECHNICAL DETAILS

Dielectric	: Polyethylene Terephthalate
Electrodes	: Vacuum deposited zinc-aluminium
Voltage	: 250 VAC
Ref. Standard	: IEC 384-1&2
Encapsulation	: Epoxy dip coated (MED-SW)
Flame Retardancy	: Conforming to UL 94 V-0
Environmental	: 55/125/56
Category	
Capacitance	: $\pm 10 \%$
Tolerance	
Test Voltage	: 415 VAC
I. R. at 100 V	: 10,000 secs.
Dissipation factor	: $\leq 6.0 \%$ at 100 kHz



L	P	d
30	27.5	0.8

Dimensions (max. in mm) :

Capacitance mfd.	250 VAC		
	L	B	H
1.0	30	5.5	13.5
1.2	30	6.0	14.0
1.5	30	6.5	16.0
1.8	30	7.0	16.5
2.0	30	7.5	17.0
2.2	30	7.0	19.0
2.4	30	8.5	18.0
2.5	30	8.5	18.0
2.7	30	9.0	18.5
3.0	30	9.0	19.0
3.2	30	10.0	19.5
3.3	30	10.0	20.0
3.4	30	10.5	18.0
3.5	30	11.0	19.0
3.7	30	11.5	19.5
3.8	30	11.5	19.5
4.0	30	12.0	20.0
4.2	30	13.0	19.0
4.3	30	13.0	19.5
4.5	30	13.0	19.5
4.7	30	14.0	20.0



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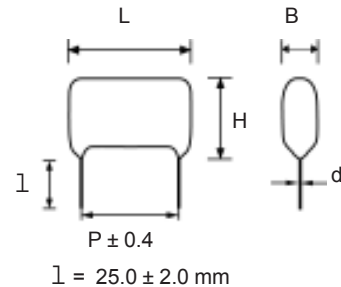
METALLISED POLYESTER CAPACITORS

MED-EC SERIES

APPLICATION : In hum-free, step type Electronic Fan Regulator. Smallest size with normal features, at lowest price.

TECHNICAL DETAILS

- Dielectric** : Polyethylene Terephthalate
- Electrodes** : Vacuum deposited zinc-aluminium
- Voltage** : 250 VAC
- Ref. Standard** : IEC 384-1&2
- Encapsulation** : Epoxy dip coated (MED-EC)
- Flame Retardancy** : Conforming to UL 94 V-0
- Environmental** : 55/125/56
- Category**
- Capacitance** : $\pm 10 \%$
- Tolerance**
- Test Voltage** : 415 VAC
- I. R. at 100 V** : 10,000 secs.
- Dissipation factor** : $\leq 6.0 \%$ at 100 kHz



L	P	d
18	15.0	0.8
25	22.5	0.8
30	27.5	0.8

Dimensions (max. in mm) :

27.5 mm pitch

Capacitance mfd.	250 VAC		
	L	B	H
1.0	30	5.0	11.5
1.2	30	5.5	12.0
1.5	30	7.0	13.5
1.8	30	7.0	15.0
2.0	30	7.5	16.0
2.2	30	7.5	17.0
2.4	30	7.5	17.5
2.5	30	8.0	17.5
2.7	30	8.0	17.5
3.0	30	8.5	18.0
3.2	30	8.5	18.0
3.3	30	9.5	17.5
3.4	30	9.5	17.5
3.5	30	10.0	18.0
3.7	30	10.0	18.0
3.8	30	10.0	18.0
4.0	30	11.0	17.0
4.2	30	11.5	18.0
4.3	30	11.5	18.0
4.5	30	11.5	18.0
4.7	30	12.0	18.5

15 mm & 22.5 mm pitch

Capacitance mfd.	250 VAC		
	L	B	H
1.0	18.0	7.5	13.5
2.2	25.0	8.0	16.0
3.3	25.0	10.5	18.5



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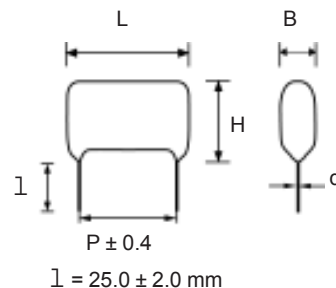
METALLISED POLYPROPYLENE SAFETY CAPACITORS

MPD-S SERIES

APPLICATION : In hum-free, step type Electronic Fan Regulator. Premium Quality long life capacitors, with Safety features.

TECHNICAL DETAILS

Dielectric	: Polypropylene (Pattern Type)
Electrodes	: Vacuum deposited zinc-aluminium
Voltage	: 250 VAC
Ref. Standard	: IEC 384-16
Encapsulation	: Epoxy dip coated (MPD-S)
Flame Retardancy	: Conforming to UL 94 V-0
Environmental	: 55/105/56
Category	
Capacitance	: $\pm 10 \%$
Tolerance	
Test Voltage	: 415VAC
I. R. at 100 V	: $\geq 30,000$ secs.
Dissipation factor	: $\leq 2.5\%$ at 100 kHz



L	P	d
30	27.5	0.8

Dimensions (max. in mm) :

Capacitance mfd.	250 VAC		
	L	B	H
1.0	30	6.5	16.0
1.2	30	7.0	16.5
1.5	30	8.0	17.0
1.8	30	8.5	18.0
2.0	30	9.0	18.5
2.2	30	10.0	19.5
2.5	30	11.0	19.0
2.7	30	12.0	19.5
3.0	30	12.0	20.0
3.2	30	13.5	20.0
3.3	30	14.0	20.5
3.5	30	14.5	20.5
3.7	30	15.0	21.0
3.8	30	15.0	21.0
4.0	30	16.0	21.5
4.2	30	16.0	21.5
4.7	30	16.5	24.5



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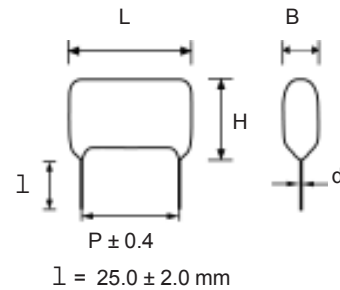
METALLISED POLYPROPYLENE SMALL SIZE SAFETY CAPACITORS

MPD-SMS SERIES

APPLICATION : In hum-free, step type Electronic Fan Regulator. High reliability capacitors, with Safety features, specially designed for switch size.

TECHNICAL DETAILS

- Dielectric** : Polypropylene
- Electrodes** : Vacuum deposited zinc-aluminium
- Voltage** : 250 VAC
- Ref. Standard** : IEC 384-16
- Encapsulation** : Epoxy dip coated (MPD-SMS)
- Flame Retardancy** : Conforming to UL 94 V-0
- Environmental** : 55/105/56
- Category**
- Capacitance** : $\pm 10\%$
- Tolerance**
- Test Voltage** : 415 VAC
- I. R. at 100 V** : $\geq 30,000$ secs.
- Dissipation factor** : $\leq 2.5\%$ at 100 kHz



L	P	d
30	27.5	0.8

Dimensions (max. in mm) :

Capacitance mfd.	250 VAC		
	L	B	H
1.0	30	6.0	13.5
1.2	30	6.5	14.5
1.5	30	7.0	16.5
1.8	30	7.5	17.0
2.0	30	8.0	17.5
2.2	30	8.0	20.0
2.4	30	9.0	18.5
2.5	30	9.0	18.5
2.7	30	9.5	19.0
3.0	30	10.5	19.5
3.2	30	10.5	20.0
3.3	30	10.5	21.0
3.4	30	11.0	19.0
3.5	30	12.0	20.0
3.7	30	12.5	20.0
3.8	30	12.5	20.0
4.0	30	13.5	20.0
4.2	30	14.0	20.5
4.3	30	14.0	20.5
4.5	30	14.0	20.0
4.7	30	15.5	20.5



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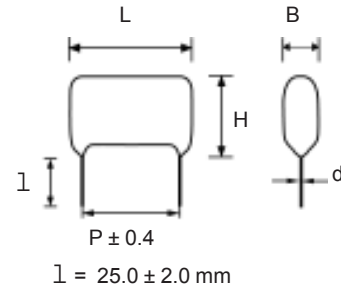
METALLISED POLYESTER SAFETY CAPACITORS (SWITCH SIZE)

MED-SWS SERIES

APPLICATION : In hum-free, step type Electronic Fan Regulator. High reliability capacitors with Safety features, specially designed for switch size.

TECHNICAL DETAILS

- Dielectric** : Polyethylene Terephthalate
- Electrodes** : Vacuum deposited zinc-aluminium
- Voltage** : 250 VAC
- Ref. Standard** : IEC 384-1&2
- Encapsulation** : Epoxy dip coated (MED-SWS)
- Flame Retardancy** : Conforming to UL 94 V-0
- Environmental** : 55/125/56
- Category**
- Capacitance** : $\pm 10 \%$
- Tolerance**
- Test Voltage** : 415VAC
- I. R. at 100 V** : 10,000 secs.
- Dissipation factor** : $\leq 8.5 \%$ at 100 kHz



L	P	d
30	27.5	0.8

Dimensions (max. in mm) :

Capacitance mfd.	250 VAC		
	L	B	H
1.0	30	5.5	13.5
1.2	30	6.0	14.0
1.5	30	6.5	16.0
1.8	30	7.0	16.5
2.0	30	7.5	17.0
2.2	30	7.0	19.0
2.4	30	8.5	18.0
2.5	30	8.5	18.0
2.7	30	9.0	18.5
3.0	30	9.0	19.0
3.2	30	10.0	19.5
3.3	30	10.0	20.0
3.4	30	10.5	18.0
3.5	30	11.0	19.0
3.7	30	11.5	19.5
3.8	30	11.5	19.5
4.0	30	12.0	20.0
4.2	30	13.0	19.0
4.3	30	13.0	19.5
4.5	30	13.0	19.5
4.7	30	14.0	20.0



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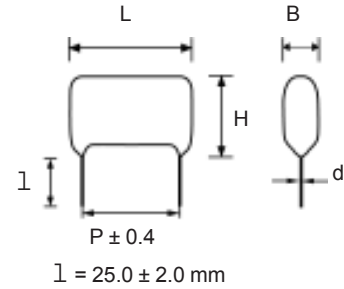
METALLISED POLYESTER SAFETY CAPACITORS

MED-ECS SERIES

APPLICATION : In hum-free, step type Electronic Fan Regulator. Smallest size, with Safety features, at lowest price.

TECHNICAL DETAILS

Dielectric	: Polyethylene Terephthalate
Electrodes	: Vacuum deposited zinc-aluminium
Voltage	: 250 VAC
Ref. Standard	: IEC 384-1&2
Encapsulation	: Epoxy dip coated (MED-ECS)
Flame Retardancy	: Conforming to UL 94 V-0
Environmental	: 55/125/56
Category	
Capacitance	: $\pm 10 \%$
Tolerance	
Test Voltage	: 415 VAC
I. R. at 100 V	: 10,000 secs.
Dissipation factor	: $\leq 8.5 \%$ at 100 kHz



L	P	d
18	15.0	0.8
25	22.5	0.8
30	27.5	0.8

Dimensions (max. in mm) :

27.5 mm pitch

Capacitance mfd.	250 VAC		
	L	B	H
1.0	30	5.0	11.5
1.2	30	5.5	12.0
1.5	30	7.0	13.5
1.8	30	7.0	15.0
2.0	30	7.5	16.0
2.2	30	7.5	17.0
2.4	30	7.5	17.5
2.5	30	8.0	17.5
2.7	30	8.0	17.5
3.0	30	8.5	18.0
3.2	30	8.5	18.0
3.3	30	9.5	17.5
3.4	30	9.5	17.5
3.5	30	10.0	18.0
3.7	30	10.0	18.0
3.8	30	10.0	18.0
4.0	30	11.0	17.0
4.2	30	11.5	18.0
4.3	30	11.5	18.0
4.5	30	11.5	18.0
4.7	30	12.0	18.5

15 mm & 22.5 mm pitch

Capacitance mfd.	250 VAC		
	L	B	H
1.0	18.0	7.5	13.5
2.2	25.0	8.0	16.0
3.3	25.0	10.5	18.5



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METALLISED POLYPROPYLENE SAFETY CAPACITORS

MPS-S SERIES

APPLICATION : In hum-free, step type Electronic Fan Regulator. Premium Quality long life capacitors, with Safety features.

TECHNICAL DETAILS

Dielectric	: Polypropylene (Pattern type)
Electrodes	: Vacuum deposited zinc-aluminium
Voltage	: 250 VAC
Ref. Standard	: IEC 384-16
Encapsulation	: Plastic Box & Epoxy (MPS-S) (Block type - 3-in-1)
Flame Retardancy	: Conforming to UL 94 V-0
Environmental	: 55/105/56
Category	
Capacitance	: $\pm 10 \%$
Tolerance	
Test Voltage	: $1.6 \times V_r$ (2 secs.)
I. R. at 100 V	: $\geq 30,000$ secs.
Dissipation factor	: $\leq 2.5 \%$ at 100 kHz

Dimensions (max. in mm):

Capacitance mfd.	250 VAC		
	L	B	H
1.0, 2.2 & 3.3 (3-in-1)	31.0	30.0	20.5

L	P	d
31	27.5	0.8



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METALLISED POLYESTER SAFETY CAPACITORS (SWITCH SIZE)

MES-SWS SERIES

APPLICATION : In hum-free, step type Electronic Fan Regulator. High reliability capacitors, with Safety features, specially designed for switch size.

TECHNICAL DETAILS

Dielectric	: Polyethylene Terephthalate (Pattern type)
Electrodes	: Vacuum deposited zinc-aluminium
Voltage	: 250 VAC
Ref. Standard	: IEC 384-1&2
Encapsulation	: Plastic box & Epoxy (MES-SWS) (Block Type - 2-in-1)
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.)
I. R. at 100 V	: 10,000 secs.

Dimensions (max. in mm) :

Capacitance mfd.	250 VAC		
	L	B	H
2.2 & 3.3 (2-in-1)	31.0	16.4	20.6

L	P	d
31	27.5	0.8



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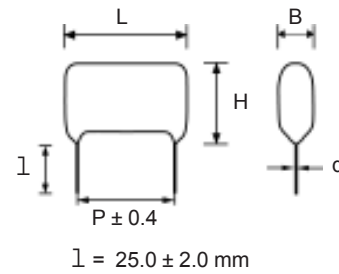
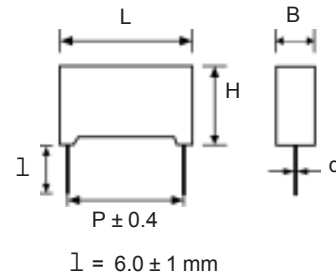
ELECTROMAGNETIC INTERFERENCE (EMI) SUPPRESSION CAPACITORS

MPB-X2 / MPD-X2 SERIES

APPLICATION : In electronic equipment and appliances for suppression of electromagnetic interference (EMI/RFI) across the line & line by pass, SMPS, electronic ballast.

TECHNICAL DETAILS

- Dielectric** : Polypropylene
- Electrodes** : Vacuum deposited zinc aluminium
- Ref. Standard** : IEC 384-14
- Encapsulation** : 1. Plastic box and Epoxy (MPB-X2)
2. Epoxy dip coated (MPD-X2)
- Flame Retardancy** : Conforming to UL 94 V-0
- Environmental** : 55/105/56
- Category**
- Capacitance** : $\pm 10\%$
- Tolerance**
- Test Voltage** : 1500V (2 seconds)
- I. R. at 100 V** : $C \leq 0.33 \text{ mfd.} : > 3 \times 10^4 M\Omega$
 $C > 0.33 \text{ mfd.} : > 10,000 \text{ secs.}$
- Tan δ at 100KHz** : $C \leq 0.33 \text{ mfd.} \leq 0.5\%$
& $C > 0.33 \text{ mfd.} \leq 1.0\%$



L	P	d
13	10	0.6
18	15	0.8
27	22.5	0.8
30	27.5	0.8



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ELECTROMAGNETIC INTERFERENCE (EMI) SUPPRESSION CAPACITORS

**MPB-X2 /
MPD-X2
SERIES**

Dimension (max. in mm):

For 250/275/305 VAC, 10 & 15 mm pitch

Capacitance mfd.	L	B	H	L	B	H
0.01	14.0	4.0	10.0	18.0	5.0	11.0
0.015	13.0	5.0	11.0	18.0	5.0	11.0
0.022	14.0	4.0	10.0	18.0	5.0	11.0
0.033	14.0	4.0	10.0	18.0	5.0	11.0
0.047	13.0	4.0	11.0	18.0	5.0	11.0
0.068	13.0	5.0	11.0	18.0	5.0	11.0
0.1	13.0	5.0	11.0	18.0	5.0	11.0
0.15				18.0	6.5	12.0
0.22				18.0	7.5	14.0

For 250/275/305 VAC, 22.5/27.5 mm pitch

Capacitance mfd.	L	B	H
0.22	26.0	6.5	13.0
0.33	26.0	8.5	14.0
0.41	27.0	8.5	17.5
0.47	27.0	8.5	17.5
0.68	27.0	10.5	21.0
1.0	31.0	11.5	21.0
1.5	31.0	11.5	21.0
1.8	31.0	14.0	24.0
2.2	31.0	14.0	24.0

For 440 VAC, 10 to 27.5 mm pitch

Capacitance mfd.	L	B	H
0.01	14.0	4.0	10.0
0.015	13.0	5.0	11.0
0.022	13.0	5.0	11.0
0.22	31.0	8.5	16.0
0.33	31.0	11.5	21.0
0.47	31.0	11.5	21.0



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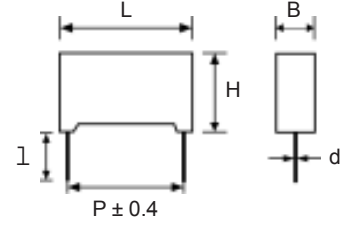
ELECTROMAGNETIC INTERFERENCE SUPPRESSION CAPACITORS

MPB-Y2 SERIES

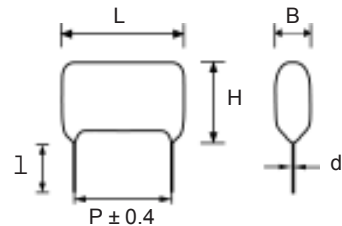
APPLICATION : In electrical equipment, medical equipment & household appliances etc. to avoid dangerous electrical shock.

TECHNICAL DETAILS

- Dielectric** : Polypropylene
- Electrodes** : Vacuum deposited zinc Aluminium
- Ref. Standard** : IEC 384-14
- Encapsulation** : Plastic box & epoxy (MPB)
- Flame Retardancy** : Conforming to UL 94 V-0
- Environmental** : 48/105/56
- Category**
- Capacitance** : $\pm 10\%$
- Tolerance**
- I. R. at 100 V** : $1 \times 10^5 M\Omega$
- Test Voltage** : 3000V (2 secs.)
- Dissipation**
- Factor** : $\leq 0.1\%$ at 100 KHz



$l = 6.0 \pm 1 \text{ mm}$



$l = 25.0 \pm 2.0 \text{ mm}$

L	P	d
18.0	15.0	0.8

Dimensions (max. in mm) :

Capacitance mfd.	250 VAC					
	L	B	H	L	B	H
0.0022	14.0	4.0	10.0	18.0	5.0	11.0
0.0033	14.0	4.0	10.0	18.0	5.0	11.0
0.0047	14.0	4.0	10.0	18.0	5.0	11.0
0.0068	14.0	4.0	10.0	18.0	5.0	11.0
0.01	13.0	4.0	10.0	18.0	5.0	11.0
0.015				18.0	6.5	12.0



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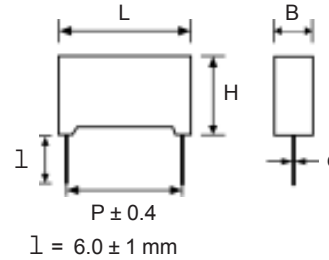
METALLISED POLYESTER CAPACITORS

MEB-UPS SERIES

APPLICATION : In UPS & Inverters.

TECHNICAL DETAILS

- Dielectric** : Polyethylene Terephthalate
- Electrodes** : Vacuum deposited Zinc Alumimium
- Ref. Standard** : IEC 384-1&2
- Encapsulation** : Plastic box and epoxy (MEB)
- 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.)
- I. R. at 100 V** : 10,000 secs.
- Tan δ at 100 KHz** : $\leq 5.0 \%$



L	P	d
31.0	26.5	0.8

Dimensions (max. in mm) :

Capacitance mfd.	400 VDC		
	L	B	H
0.68	31.0	8.5	16.0
1.0	31.0	8.5	16.0
1.5	31.0	8.5	16.0
2.0	31.0	11.5	21.0
2.2	31.0	11.5	21.0



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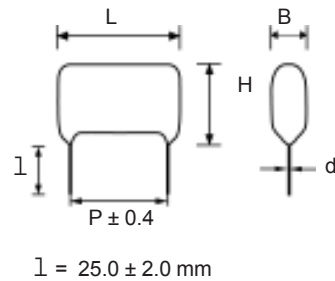
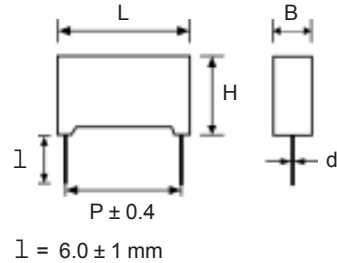
FILM FOIL POLYPROPYLENE CAPACITORS

PPB / PPD SERIES

APPLICATION : In Switch mode power supplies (SMPS), as damping and commutation capacitors, deflection systems in TVs / monitors, static frequency convertors and power electronics.

TECHNICAL DETAILS

- Dielectric** : Plain Polypropylene
- Electrodes** : Foil
- Ref. Standard** : IEC 384-17
- Encapsulation** : 1. Plastic box and epoxy (PPB)
2. Epoxy dip coated (PPD)
- Flame Retardancy** : Conforming to UL 94 V-0
- Environmental** : 55/105/56
- Category**
- Capacitance** : $\pm 10\%$
- Tolerance**
- Test Voltage** : $2 \times V_r$ (2 secs.)
- I. R. at 500V** : $> 1 \times 10^5 \text{ M}\Omega$
- Tan δ at 100kHz** : $\leq 0.10\%$
- Max. pulse rise time (dv/dt) :**



Capacitance pfd / mfd.	Pulse rise time V/ μ sec	
	1600 V	2000 V
100.....220	18000	18000
330.....680	15000	16000
1000.....2200	11000	15000
3300.....6800	9000	13000
0.01	6000	8500

L	P	d
18	15.0	0.8
27.0	22.5	0.8

Dimensions (max. in mm) :

15 mm pitch Box & Dip type

Capacitance mfd.	1600 V			2000 V		
	L	B	H	L	B	H
0.001	18	5.0	11.0	18	5.0	11.0
0.0015	18	5.0	11.0	18	5.0	11.0
0.0022	18	5.0	11.0	18	5.0	11.0
0.0033	18	5.0	11.0	18	6.5	12.0
0.0039	18	5.0	11.0	18	6.5	12.0
0.0047	18	5.0	11.0	18	6.5	12.0
0.0056	18	5.0	11.0	18	7.5	14.0
0.0068	18	5.0	11.0	18	7.5	14.0
0.0075	18	6.5	12.0	18	7.5	14.0
0.0082	18	6.5	12.0	18	8.5	15.0
0.0091	18	6.5	12.0	18	8.5	15.0
0.01	18	6.5	12.0	18	8.5	17.0
0.015	18	7.5	14.0			
0.022	18	8.5	13.0			

22.5 mm pitch Box type

Capacitance mfd.	1600 V/2000 V		
	L	B	H
0.0022	27.0	6.5	13.0
0.0033	27.0	6.5	13.0
0.0039	27.0	6.5	13.0
0.0047	27.0	6.5	14.0
0.0056	27.0	6.5	14.0
0.0062	27.0	6.5	14.0
0.0068	27.0	6.5	14.0
0.0072	27.0	8.5	14.0
0.0075	27.0	8.5	14.0
0.0082	27.0	8.5	14.0
0.0085	27.0	8.5	14.0
0.0091	27.0	8.5	14.0
0.01	27.0	8.5	14.0



ISO 9001

DESAI ELECTRONICS PVT. LTD.

870/5, Bhandarkar Institute Road, Pune : 411 004.

Ph.: 91-20-25654553, 25654554. Fax : 25654273. e-mail: mktg@deccapacitors.net



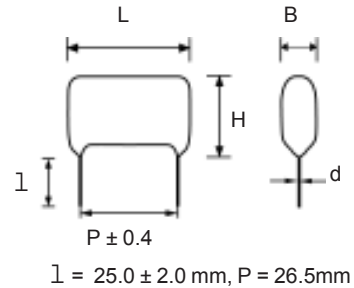
METALLISED POLYESTER CAPACITORS (CDI)

MED-CDI SERIES

APPLICATION : In automobile industry for Capacitor Discharge Ignition systems.

TECHNICAL DETAILS

- Dielectric** : Polyethylene Terephthalate
- Electrodes** : Vacuum deposited zinc-aluminium
- Voltage** : 400V
- Ref. Standard** : IEC 384-1& 2
- Encapsulation** : Epoxy dip coated
- 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.)
- I. R. at 400 V** : ≥ 10000 secs.
- Tan δ at 100 KHz** : $\leq 3.0\%$



L	P	d
29.5	26.5	0.8

Dimensions (max. in mm) :

Capacitance mfd.	400 V		
	L	B	H
0.68	29.5	6.0	12.5
1.0	29.5	7.0	15.0
1.4	29.5	8.5	16.5
1.5	29.5	8.5	17.0
2.2	29.5	10.0	20.0



ISO 9001

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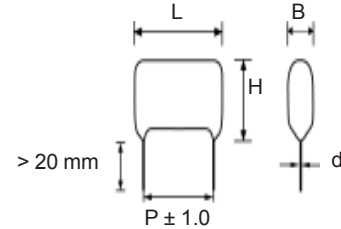
870/5, Bhandarkar Institute Road, Pune : 411 004.

Ph. : 91-20-25654553, 25654554. Fax : 25654273. e-mail : mktg@deccapacitors.net

APPLICATION : In TVs, CFL, electronic ballast, automobile, telecommunication, audio & instrumentation.

TECHNICAL DETAILS

Dielectric	: Polypropylene
Electrodes	: Foil
Ref. Standard	: Q/320684DER01-2001
Encapsulation	: Epoxy dip coated (IPD)
Flame Retardancy	: Conforming to UL 94 V-0
Environmental	: 55/105/21
Category	
Capacitance	: $\pm 5\%$, $\pm 10\%$
Tolerance	
Test Voltage	: $2.5 \times V_r$ (5 secs.)
Tan δ	: ≤ 0.008 at 1kHz
I. R.	: $C \leq 0.33 \text{ mfd} : > 3.0 \times 10^4$ $M\Omega, C > 0.33 \text{ mfd} : > 10^4 M\Omega$



L	P	d
6.5	4.0	0.5
7.0	4.5	0.5
7.5	5.0	0.5
8.0	5.0	0.5
9.0	6.0	0.5
9.5	6.0	0.5
10	6.0	0.5
11	7.0	0.5
12	7.0	0.5
13	8.0	0.6
14	9.0	0.6
15	9.0	0.6

Dimensions (max. in mm) :

Capacitance mfd.	630 VDC			1000 VDC		
	L	B	H	L	B	H
0.00022	6.0	4.0	12.0	6.5	5.0	12.5
0.00027	6.0	4.0	12.0	6.5	5.0	12.5
0.00033	6.0	4.0	12.0	6.5	5.0	12.5
0.00039	6.0	4.0	12.0	6.5	5.0	12.5
0.00047	6.0	4.0	12.0	6.5	5.0	12.5
0.00056	6.0	4.0	12.0	6.5	5.0	12.5
0.00068	6.0	4.0	12.0	6.5	5.0	12.5
0.00082	6.5	4.5	12.0	7.0	5.5	13.0
0.0010	6.5	4.5	12.0	7.0	5.5	13.0
0.0012	7.0	5.0	12.0	8.0	6.0	14.0
0.0015	7.5	5.0	12.0	8.5	6.0	14.0
0.0018	7.5	5.0	12.0	8.5	6.0	14.0
0.0022	8.0	5.5	12.0	9.0	6.0	14.0
0.0027	8.0	5.5	13.0	9.0	6.5	14.0
0.0033	9.0	5.5	13.0	9.0	6.5	15.0
0.0039	9.5	5.5	13.0	9.5	7.0	15.0
0.0047	9.5	5.5	13.0	10.0	7.5	15.5
0.0056	9.5	5.5	14.0	10.0	7.5	16.0
0.0068	9.5	7.0	14.0	12.0	8.0	17.0
0.0082	11.0	7.0	15.0	13.0	8.5	17.0
0.010	11.0	8.0	15.0	13.0	8.5	17.0
0.012	12.0	8.0	16.0	13.0	8.5	18.0
0.015	12.0	8.0	16.0	14.0	9.0	19.0
0.018	12.0	8.0	19.0	14.0	9.0	19.0
0.022	12.0	8.0	19.0	14.0	9.0	19.0
0.027	14.0	8.0	21.0			
0.033	14.0	8.0	21.0			
0.039	16.0	9.5	22.0			
0.047	16.0	9.5	22.0			



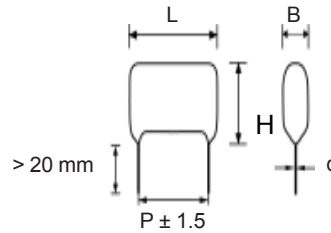
INDUCTIVE POLYESTER CAPACITORS

IED SERIES

APPLICATION : In TVs, CFL, electronic ballast, automobile, telecommunication, audio & instrumentation.

TECHNICAL DETAILS

- Dielectric** : Polyester
- Electrodes** : Foil
- Ref. Standard** : Q/320684DER01-2001
- Encapsulation** : Epoxy dip coated
- Flame Retardancy** : Conforming to UL 94 V-0
- Environmental** : 55/105/21
- Category**
- Capacitance** : $\pm 5\%$, $\pm 10\%$
- Tolerance**
- Test Voltage** : $2.5 \times V_r$ (5 secs.)
- Tan Delta** : ≤ 0.008 at 1kHz
- Insulation**
- Resistance** : $C \leq 0.33 \text{ mfd} : > 3.0 \times 10^4 \text{ M}\Omega$
 $C > 0.33 \text{ mfd} : > 10^4 \text{ M}\Omega\mu\text{F}$



L	P	d
6.0	3.5	0.5
6.5	3.5, 5	0.5
7.0	4, 5	0.5
7.2	4	0.5
7.5	4, 5	0.5
8.0	4, 5, 6	0.5
8.3	5, 6.5	0.5
8.5	4.5, 5	0.5
9.0	5, 6, 6.5	0.5
9.5	6, 7.5	0.5
10.0	5, 6, 6.5	0.5, 0.6
10.5	7	0.5
11.0	6, 7, 7.5	0.5, 0.6
11.5	6.5	0.5
12.0	7	0.5, 0.6
12.5	6.5, 7.5	0.6
13.0	7	0.5
13.5	7, 9	0.6
13.8	7.5	0.6
14.0	8	0.6
14.5	7	0.6
15.5	9	0.6
16.0	8, 8.5	0.6
17.5	9	0.6
19.0	9, 12	0.6

Dimensions (max. in mm) :

Capacitance mfd.	63/100 V			160 V			250 V			400 V			630 V			1000 V			1200 V		
	L	B	H	L	B	H	L	B	H	L	B	H	L	B	H	L	B	H	L	B	H
0.001	6.0	2.8	11.5	6.5	3.5	11.5	6.5	3.5	11.0	7.0	4.0	11.5	7.5	4.5	12.0	8.0	5.0	14.0	8.0	5.5	14.0
0.0012	6.0	2.8	11.5	6.5	3.5	11.5	6.5	3.5	11.0	7.2	4.0	12.0	7.5	4.5	12.0	8.0	5.0	14.0	8.0	5.5	14.0
0.0015	6.0	2.8	11.5	6.5	3.5	11.5	6.5	3.5	11.0	7.2	4.0	12.0	7.5	4.5	12.0	8.0	5.0	14.0	8.0	5.5	14.0
0.0018	6.0	2.8	11.5	6.5	3.5	11.5	6.5	3.5	11.0	7.5	4.0	12.5	8.5	4.5	13.0	8.0	5.0	14.0	8.0	5.5	14.0
0.0022	6.0	2.8	11.5	6.5	3.5	11.5	6.5	3.5	11.0	7.5	4.5	12.5	8.5	4.5	13.0	8.0	5.0	14.0	8.0	5.5	14.0
0.0027	6.0	2.8	11.5	6.5	3.5	11.5	6.5	3.5	11.0	8.0	4.5	13.0	9.0	5.0	13.0	9.0	6.0	14.0	9.0	6.0	15.0
0.0033	6.0	2.8	11.5	6.5	3.5	11.5	6.5	3.5	11.0	8.0	5.0	13.0	9.0	5.0	13.0	9.0	6.0	14.0	10.0	6.0	15.0
0.0039	6.0	2.8	11.5	6.5	3.5	11.5	6.5	3.5	11.0	9.0	5.0	14.0	10.0	5.5	14.0	10.0	6.5	16.0	10.0	7.0	16.0
0.0047	6.0	2.8	11.5	6.5	3.5	11.5	6.5	3.5	11.0	9.0	5.5	14.0	10.0	5.5	14.0	10.0	7.0	16.0	10.0	7.0	16.0
0.0056	6.0	2.8	11.5	7.0	4.0	11.0	7.0	4.0	11.0	9.5	5.5	14.0	10.0	5.5	14.0	10.0	7.0	16.0	11.0	7.0	16.0
0.0068	6.0	2.8	11.5	7.0	4.0	11.0	7.0	4.0	11.0	9.5	6.7	14.0	11.0	7.0	16.0	10.0	7.0	16.0	11.0	7.0	16.0
0.0082	6.5	3.0	11.5	8.0	4.0	13.0	8.0	4.0	13.0	10.5	6.7	15.0	11.0	7.0	16.0	12.0	8.0	17.0	13.0	8.5	17.0
0.01	6.5	3.0	11.5	8.0	4.0	13.0	8.0	4.5	13.0	10.5	8.0	15.0	11.0	7.5	18.5	12.0	8.0	17.0	13.0	8.5	17.0
0.012	7.5	3.5	11.5	8.5	4.5	13.5	8.3	4.5	13.5	12.0	8.0	15.5	13.5	7.5	18.5						
0.015	7.5	3.5	11.5	8.5	4.5	13.5	8.3	5.7	13.5	12.0	8.0	15.5	13.5	7.5	18.5						
0.018	8.0	3.5	11.5	9.0	5.5	14.0	9.0	5.7	14.0	12.0	8.0	18.5	14.5	8.0	20.0						
0.022	8.0	3.5	11.5	9.0	5.5	14.0	9.0	6.3	14.0	12.0	8.0	18.5	14.5	8.0	20.0						
0.027	8.0	4.0	11.5	10.0	6.0	15.0	10.0	6.3	15.0	13.5	8.0	21.0	16.0	9.5	22.0						
0.033	8.0	4.0	11.5	10.0	6.0	15.0	10.0	8.5	15.0	13.5	8.0	21.0	16.0	9.5	22.0						
0.039	9.0	4.5	12.0	11.5	7.0	15.5	12.5	8.5	17.5	15.5	9.5	22.0	19.0	12.0	25.5						
0.047	9.0	4.5	12.0	11.5	7.0	15.5	12.5	8.5	17.5	15.5	9.5	22.0	19.0	12.0	25.5						
0.056	9.5	5.0	12.5	12.5	8.5	16.0	13.8	8.5	17.5	17.5	12.0	23.5									
0.068	9.5	5.0	12.5	12.5	8.5	16.0	13.8	8.5	17.5	17.5	12.0	23.5									
0.082	11.0	6.0	12.5	14.0	10.0	19.0	16.0	9.5	22.0	19.0	11.0	24.5									
0.1	11.0	6.0	12.5	14.0	10.0	19.0	16.0	9.5	22.0	19.0	11.0	24.5									



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