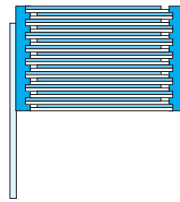
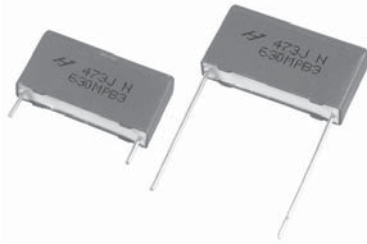


**SERIES**

**MPB**



Metallized Polypropylene Film  
 Metal Spray Layer  
 Connecting Wire

**Construction:**

Dielectric : Polypropylene Film .  
 Electrodes : Aluminum Metallization.  
 Winding : non-inductive type.  
 Leads : Tinned Wire.  
 Outer coating: Flame retarding plastic case and epoxy resin filled.

**Feature:**

Low Dissipation Factor at high frequency.  
 High stability of capacitance & DF.  
 Self-healing property.  
 High insulation resistance.

**Recommended Application:**

Typical for S-correction in TV-set .  
 Electronic ballast circuits.  
 Switching power supply circuits.  
 Video tape recorder.

**Electrical Characteristics:**

Related Documents	IEC 60384-16 ; CECC 31200								
Rated Voltage	100VDC , 250VDC , 400VDC , 630VDC.								
Rated Temperature	-40°C ~ +85°C.								
Usable upper category temperature	+105°C. (Derating ratio of rated voltage to +85°C ~ +105°C: 1.5% per°C for Rated Voltage )								
Capacitance Range	0.01 μF ~ 10 μF.								
Capacitance Tolerance	±3%(H), ±5%(J), ±10%(K)								
Dissipation Factor	KHz	C ≤ 0.1 μF	0.1 < C ≤ 1.0 μF	1.0 < C ≤ 3.0 μF	3.0 < C ≤ 5.0 μF	5.0 < C ≤ 10 μF			
	1	≤ 0.10%	≤ 0.10%	≤ 0.10%	≤ 0.10%	≤ 0.10%			
	100	≤ 0.40%	≤ 0.70%	≤ 1.20%	≤ 1.80%	≤ 2.80%			
Insulation Resistance	Terminal to Terminal: (at 20 ± 5°C) , Voltage charge time : 1 minute. Voltage charge: 100VDC ≥ 30000MΩ for C ≤ 0.33 μF , ≥ 10000MΩ × μF for C > 0.33 μF								
Withstand Voltage	Terminal to Terminal: (at 20°C ± 5°C) 1.6 × V <sub>R</sub> applied for 2sec. (cut off current 10mA)								
Rated Voltage Pulse Slope dV/dt (V/μs)	V.R	Pitch	7.5m/m	10m/m	15m/m	20m/m	27.5m/m	32.5m/m	37.5m/m
	100VDC		130	110	100	70	50	35	25
	250VDC		240	220	200	130	100	70	50
	400VDC		-----	350	300	200	150	110	80
	630VDC		-----	420	400	250	180	140	90



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**Reliability Test :**

Item	Test Method	Requirements
Resistance to soldering heat IEC 60068-2-20"	Solder bath: 260°C ±5°C Immersion time: 10sec±1sec	Capacitance change   $\Delta C/C$   : ≤ 1% DF change $\Delta \tan \delta$ : 0.1% at 1Khz IR: ≥ limit value.
Resistance to vibration IEC 60068-2-6"	Frequency range: 10hz to 55hz Amplitude: 1.5m/m Duration: 6 hours	There shall be no visible damage, no intermittent contact, no open or short circuit
Damp heat, steady state IEC 60068-2-3"	Temperature: 40°C ±2°C Relative humidity: 90% to 95% Duration: 1000 hours	Capacitance change   $\Delta C/C$   : ≤ 3% DF change $\Delta \tan \delta$ : 0.1% at 1Khz IR: ≥ 50% limit value.
Endurance IEC 60384-17"	Temperature: 85°C ±2°C Voltage applied: 1.25×Vr(DC) Duration: 2000 hours	Capacitance change   $\Delta C/C$   : ≤ 3% DF change $\Delta \tan \delta$ : 0.1% at 1Khz IR: ≥ 50% limit value.

Cap.(μF)

Size Unit:m/m

R.V. Size Cap.(μF)	100VDC					250VDC					400VDC					630VDC				
	W	H	T	P	dφ	W	H	T	P	dφ	W	H	T	P	dφ	W	H	T	P	dφ
0.01											10.0	8.0	4.0	7.5	0.6	10.0	10.0	5.0	7.5	0.6
0.012											10.0	8.0	4.0	7.5	0.6	10.0	11.0	5.0	7.5	0.6
0.015											10.0	10.0	5.0	7.5	0.6	10.0	12.0	6.0	7.5	0.6
0.018											10.0	10.0	5.0	7.5	0.6	10.0	12.0	6.0	7.5	0.6
0.022						10.0	8.0	4.0	7.5	0.6	10.0	10.0	5.0	7.5	0.6	13.0	11.0	5.5	10.0	0.6
0.027						10.0	8.0	4.0	7.5	0.6	10.0	11.0	5.0	7.5	0.6	13.0	12.0	6.0	10.0	0.6
0.033						10.0	9.0	4.0	7.5	0.6	10.0	12.0	6.0	7.5	0.6	13.0	13.0	7.0	10.0	0.6
0.039						10.0	9.0	4.0	7.5	0.6	13.0	11.0	5.5	10.0	0.6	13.0	13.0	7.0	10.0	0.6
0.047	10.0	8.0	4.0	7.5	0.6	10.0	10.0	5.0	7.5	0.6	13.0	11.0	5.5	10.0	0.6	13.0	14.0	8.0	10.0	0.6
0.056	10.0	8.0	4.0	7.5	0.6	10.0	10.0	5.0	7.5	0.6	13.0	12.0	6.0	10.0	0.6	13.0	14.0	8.0	10.0	0.6
0.068	10.0	9.0	4.0	7.5	0.6	10.0	10.0	5.0	7.5	0.6	13.0	13.0	7.0	10.0	0.6	18.0	13.0	7.0	15.0	0.8
0.082	10.0	10.0	5.0	7.5	0.6	10.0	12.0	6.0	7.5	0.6	13.0	13.0	7.0	10.0	0.6	18.0	13.5	7.5	15.0	0.8
0.1	10.0	10.0	5.0	7.5	0.6	10.0	12.0	6.0	7.5	0.6	13.0	14.0	8.0	10.0	0.6	18.0	14.0	8.0	15.0	0.8
0.12	10.0	10.0	5.0	7.5	0.6	13.0	12.0	6.0	10.0	0.6	18.0	12.0	6.0	15.0	0.8	18.0	15.5	8.0	15.0	0.8
0.15	10.0	12.0	6.0	7.5	0.6	13.0	12.0	6.0	10.0	0.6	18.0	13.0	7.0	15.0	0.8	18.0	16.5	10.0	15.0	0.8
0.18	10.0	12.0	6.0	7.5	0.6	13.0	13.0	7.0	10.0	0.6	18.0	13.5	7.5	15.0	0.8	18.0	18.0	10.0	15.0	0.8
0.22	13.0	11.0	5.0	10.0	0.6	13.0	13.0	7.0	10.0	0.6	18.0	14.5	7.5	15.0	0.8	18.0	19.0	11.0	15.0	0.8
0.27	13.0	12.0	6.0	10.0	0.6	18.0	12.5	6.0	15.0	0.8	18.0	16.0	9.0	15.0	0.8	26.0	18.0	9.0	22.5	0.8
0.33	13.0	13.0	7.0	10.0	0.6	18.0	13.0	7.0	15.0	0.8	18.0	16.5	10.0	15.0	0.8	26.0	19.0	10.0	22.5	0.8
0.39	13.0	13.0	7.0	10.0	0.6	18.0	14.0	7.5	15.0	0.8	18.0	17.5	11.0	15.0	0.8	26.0	20.0	11.0	22.5	0.8
0.47	13.0	14.0	8.0	10.0	0.6	18.0	14.5	7.5	15.0	0.8	26.0	17.0	8.0	22.5	0.8	26.0	21.5	12.0	22.5	0.8
0.56	18.0	13.0	7.0	15.0	0.8	18.0	16.0	9.0	15.0	0.8	26.0	18.0	9.0	22.5	0.8	26.0	23.0	14.5	22.5	0.8
0.68	18.0	14.5	7.5	15.0	0.8	18.0	18.0	9.0	15.0	0.8	26.0	19.0	10.0	22.5	0.8	26.0	25.0	15.0	22.5	0.8
0.82	18.0	15.5	8.0	15.0	0.8	18.0	19.0	10.0	15.0	0.8	26.0	20.0	11.0	22.5	0.8	26.0	25.5	16.5	22.5	0.8
1.0	18.0	16.0	9.0	15.0	0.8	18.0	19.0	11.0	15.0	0.8	26.0	21.5	12.0	22.5	0.8	31.0	25.5	16.0	27.5	0.8
1.2	18.0	18.0	10.0	15.0	0.8	26.0	18.0	9.0	22.5	0.8	26.0	24.0	14.0	22.5	0.8	31.0	27.5	18.0	27.5	0.8
1.5	18.0	19.0	11.0	15.0	0.8	26.0	19.0	10.0	22.5	0.8	26.0	25.0	15.0	22.5	0.8					
1.8	26.0	18.0	9.0	22.5	0.8	26.0	20.0	11.0	22.5	0.8										
2.2	26.0	18.5	10.0	22.5	0.8	26.0	22.0	12.5	22.5	0.8										
2.7	26.0	20.0	11.0	22.5	0.8	26.0	24.0	14.0	22.5	0.8										
3.3	26.0	25.0	15.0	22.5	0.8	26.0	25.0	15.0	22.5	0.8										