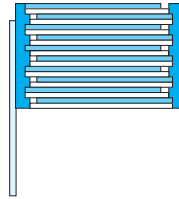
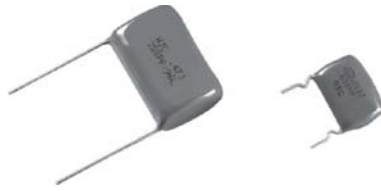


SERIES

PPN



- Aluminium Foil
- Polypropylene Film
- Metal Spray Layer
- Connecting Wire

Construction:

Dielectric :Polypropylene Film.
 Electrodes :Aluminum Foil.
 Winding :non-Inductive type.
 Leads :Tinned Wire.
 Outer coating:Flame retarding epoxy resin.

Feature:

Low Dissipation Factor at high frequency.
 High stability of capacitance & DF.
 Low dielectric absorpтуon.
 High insulation resistance.

Recommended Application:

Consumer electronic products.
 Electronic ballast circuits.
 Switching power supply circuits.
 Pulse, logic and timing circuit.
 General purpose usage.

Electrical Characteristics:

Related Documents	IEC 60384-13						
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	0.001 μF~0.82 μF.						
Capacitance Tolerance	±3%(H),±5%(J),±10%(K)						
Dissipation Factor	KHz	C ≤ 0.01 μF		0.01 μF < C ≤ 0.47 μF		0.47 μF < C ≤ 1.0 μF	
	1	≤ 0.10%		≤ 0.10%		≤ 0.10%	
	100	≤ 0.10%		≤ 0.30%		≤ 0.50%	
Insulation Resistance	Terminal to Terminal:(at20±5°C) , Voltage charge time :1 minute. Voltage charge: 100VDC ≥ 30000MΩ for C ≤ 0.1 μF , ≥ 3000MΩ × μF for C > 0.1 μF						
Withstand Voltage	Terminal to Terminal:(at20°C ± 5°C) 2.5 × V _R applied for 2sec.(cut off current 10mA)						
Rated Voltage Pulse Slope dV/dt (V/μs)	V,R	Pitch	7m/m	10m/m	15m/m	22.5m/m	27.5m/m
	100VDC		10000	4800	2400	1200	600
	250VDC		21000	9900	4800	2400	1200
	400VDC		-----	12000	6000	3000	1500
	630VDC		-----	15000	7500	3700	1800



Ph: 847-675-1865
Fax: 847-675-3345
Email: sales@icd-sales.com
Website: www.icd-sales.com

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 ΔC/C : ≤1% DF change Δtan δ :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 ΔC/C : ≤3% DF change Δtan δ :0.1% at 1Khz IR: ≥50% limit value.
Endurance IEC 60384-13"	Temperature:85°C ±2°C Voltage applied: 1.25×Vr(DC) Duration:2000 hours	Capacitance change ΔC/C : ≤3% DF change Δtan δ :0.1% at 1Khz IR: ≥50% limit value.

Cap.(μF)

Size Unit:m/m

R.V.	100VDC					250VDC					400VDC					630VDC				
Size Cap.	W	H	T	P	dφ	W	H	T	P	dφ	W	H	T	P	dφ	W	H	T	P	dφ
.001	10.5	9.5	5.0	7.0	0.6	10.5	9.5	5.0	7.0	0.6	14.0	8.5	5.5	10.0	0.6	14.0	8.5	5.5	10.0	0.6
.0015	10.5	9.5	5.5	7.0	0.6	10.5	9.5	5.5	7.0	0.6	14.0	9.5	6.0	10.0	0.6	14.0	9.5	6.0	10.0	0.6
.0022	10.5	9.5	5.5	7.0	0.6	10.5	9.5	5.5	7.0	0.6	14.0	9.5	6.0	10.0	0.6	14.0	10.0	6.5	10.0	0.6
.0033	10.5	9.5	5.5	7.0	0.6	10.5	9.5	5.5	7.0	0.6	14.0	9.5	6.0	10.0	0.6	14.0	10.5	6.5	10.0	0.6
.0047	10.5	9.5	5.5	7.0	0.6	10.5	9.5	5.5	7.0	0.6	14.0	9.5	6.0	10.0	0.6	14.0	12.0	6.5	10.0	0.6
.0068	10.5	9.5	5.5	7.0	0.6	10.5	9.5	5.5	7.0	0.6	14.0	10.0	6.5	10.0	0.6	19.0	13.0	7.5	15.0	0.8
0.01	10.5	10.0	6.5	7.0	0.6	10.5	10.0	6.5	7.0	0.6	14.0	12.0	7.5	10.0	0.6	20.0	12.5	7.5	15.0	0.8
0.015	14.0	10.0	6.5	10.0	0.6	14.0	10.0	6.5	10.0	0.6	14.0	14.0	9.0	10.0	0.6	20.0	14.5	8.0	15.0	0.8
0.022	14.0	10.0	6.5	10.0	0.6	14.0	12.0	7.0	10.0	0.6	19.0	12.0	7.5	15.0	0.6	21.0	16.5	9.0	15.0	0.8
0.033	19.0	11.5	6.5	15.0	0.6	19.0	11.5	6.5	15.0	0.6	19.0	14.0	8.5	15.0	0.6	21.0	19.0	11.0	15.0	0.8
0.047	19.0	11.5	6.5	15.0	0.6	19.0	13.0	7.5	15.0	0.6	20.0	15.5	9.5	15.0	0.8	26.0	18.0	11.5	22.5	0.8
0.068	19.0	12.0	6.5	15.0	0.6	19.0	14.0	9.0	15.0	0.8	26.0	16.5	9.0	22.5	0.8	31.0	19.0	11.0	27.5	0.8
0.1	19.0	15.0	8.5	15.0	0.8	26.0	14.5	7.0	22.5	0.8	26.0	18.5	11.0	22.5	0.8	31.0	22.0	12.5	27.5	0.8
0.15	26.0	15.0	8.0	22.5	0.8	26.0	16.0	9.0	22.5	0.8	26.0	21.0	14.0	22.5	0.8	31.0	25.5	15.5	27.5	0.8
0.22	26.0	17.5	10.0	22.5	0.8	26.0	18.0	11.0	22.5	0.8	31.0	22.0	14.5	27.5	0.8	31.0	27.5	16.0	27.5	0.8
0.33	26.0	17.5	10.0	22.5	0.8	26.0	21.5	13.5	22.5	0.8	31.0	26.0	18.5	27.5	0.8					
0.47	31.0	20.0	12.0	27.5	0.8	31.0	22.5	13.5	27.5	0.8	31.0	28.0	20.5	27.5	0.8					
0.68	31.0	24.0	16.0	27.5	0.8	31.0	26.0	20.0	27.5	0.8										
0.75	31.0	29.0	21.0	27.5	0.8	31.0	29.0	21.0	27.5	0.8										
0.82	31.0	29.0	21.5	27.5	0.8	33.0	27.0	17.0	30.0	0.8										



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