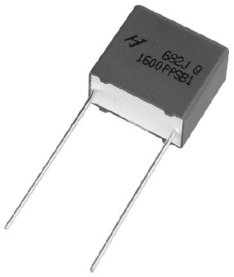
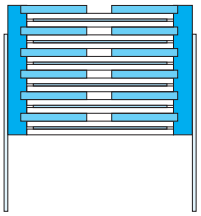
Metallized Polypropylene Capacitor-Radial

SERIES

PPSB





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

Construction:

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

Feature:

Low Dissipation Factor at high frequency.
Tight capacitance tolerance
High insulation resistance.
Very high pulse strength.
Self-healing property.

Recommended Application:

Typical for Fly-back tuning in TV-set & Monitor.
Electronic ballast circuits.
Switching power supply circuits.
High pulse load applications.
For high frequency & high current application.

Electrical Characteristics:

Related Documents	IEC 60384-17;CECC 31900
Rated Voltage(DC)	800VDC,1000VDC,1200VDC, 1600VDC, 2000VDC.
Rated Temperature	-40℃～+85℃.
Usable upper category temperature	+105℃. (Derating ratio of rated voltage to +85℃～+105℃:1.5% per ℃ for Rated Voltage)
Capacitance Range	0.001 μF～0.1 μF.
Capacitance Tolerance	±2%(G),±3%(H),±5%(J)
Dissipation Factor	0.05% at 1Khz (C≦0.1 μF) 0.15% at 100Khz (C≦0.1 μF)
Insulation Resistance	Terminal to Terminal:(at20±5℃) ≧30000MΩfor C≦0.1 μF at 500VDC ×1minute.
Withstand Voltage	Terminal to Terminal:(at20℃±5℃) 1.6 × VR applied for 2sec.(cut off current 10mA)

Rated Voltage Pulse Slope dV/dt (V/μs)

Pitch \ V.R	800VDC	1000VDC	1200VDC	1600VDC	2000VDC
15m/m	20000	28000	30000	34000	54000
22.5m/m	8000	10000	11000	13000	15000

PPSB

Reliability Test :

Item	Test Method	Requirements
Resistance to soldering heat IEC 60068-2-20"	Solder bath: 260℃ ±5℃ 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 visble damage, no intermittent contact, no open or short circuit
Damp heat, steady state IEC 60068-2-3"	Temperature:40℃ ±2℃ 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 60384-17"	Temperature:85℃ ±2℃ 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) Leads:0.8dφ Unit:m/m

R.V.	800VDC				1000VDC				1200VDC				1600VDC				2000VDC			
Size / Cap.	W	H	T	P	W	H	T	P	W	H	T	P	W	H	T	P	W	H	T	P
.001													18.0	11.0	5.0	15.0	18.0	12.0	6.0	15.0
.0012													18.0	11.0	5.0	15.0	18.0	12.0	6.0	15.0
.0015													18.0	11.0	5.0	15.0	18.0	12.0	6.0	15.0
.0018													18.0	12.0	6.0	15.0	18.0	13.5	7.5	15.0
.0022									18.0	12.0	6.0	15.0	18.0	12.0	6.0	15.0	18.0	13.5	7.5	15.0
.0027									18.0	12.0	6.0	15.0	18.0	12.0	6.0	15.0	18.0	14.5	8.5	15.0
.0033									18.0	13.5	7.5	15.0	18.0	13.5	7.5	15.0	18.0	16.0	10.0	15.0
.0039									18.0	13.5	7.5	15.0	18.0	14.5	8.5	15.0	26.0	15.0	6.0	22.5
.0047									18.0	14.5	8.5	15.0	18.0	14.5	8.5	15.0	26.0	15.0	6.0	22.5
.0056					18.0	12.0	6.0	15.0	18.0	14.5	8.5	15.0	18.0	16.5	10.0	15.0	26.0	16.5	7.0	22.5
.0068					18.0	13.5	7.5	15.0	18.0	16.5	10.0	15.0	18.0	16.5	10.0	15.0	26.0	16.5	7.0	22.5
.0082	18.0	11.0	5.0	15.0	18.0	13.5	7.5	15.0	26.0	15.0	6.0	22.5	26.0	15.0	6.0	22.5	26.0	17.0	8.5	22.5
0.01	18.0	12.0	6.0	15.0	18.0	14.5	8.5	15.0	26.0	16.5	7.0	22.5	26.0	16.5	7.0	22.5	26.0	19.0	10.0	22.5
0.012	18.0	12.0	6.0	15.0	18.0	14.5	8.5	15.0	26.0	16.5	7.0	22.5	26.0	17.0	8.5	22.5	26.0	19.0	10.0	22.5
0.015	18.0	13.5	7.5	15.0	18.0	16.5	10.0	15.0	26.0	17.0	8.5	22.5	26.0	19.0	10.0	22.5	26.0	20.0	11.5	22.5
0.018	18.0	14.0	8.0	15.0	26.0	16.5	7.0	22.5	26.0	19.0	10.0	22.5	26.0	19.0	10.0	22.5	26.0	22.0	12.5	22.5
0.022	18.0	15.0	8.5	15.0	26.0	17.0	8.5	22.5	26.0	19.0	10.0	22.5	26.0	20.0	11.0	22.5				
0.027	18.0	15.0	8.5	15.0	26.0	19.0	10.0	22.5												
0.033	18.0	17.5	11.0	15.0	26.0	19.0	10.0	22.5												
0.039	18.0	17.5	11.0	15.0	26.0	20.0	11.5	22.5												
0.047	26.0	18.0	9.0	22.5																
0.056	26.0	19.0	10.0	22.5																
0.068	26.0	20.0	11.0	22.5																
0.082	26.0	21.5	12.0	22.5																
0.10	26.0	23.0	14.0	22.5																