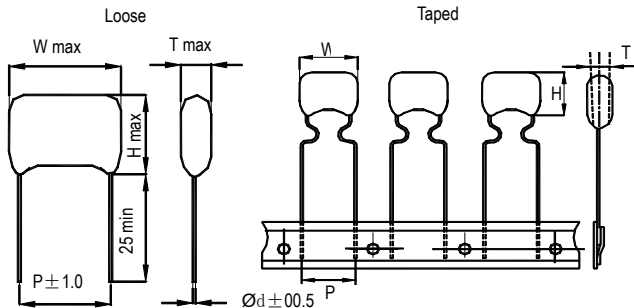


METALLIZED POLYESTER FILM CAPACITOR

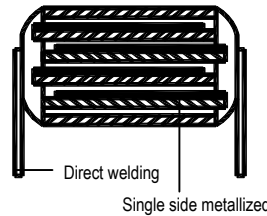
M P E

Radial dipped

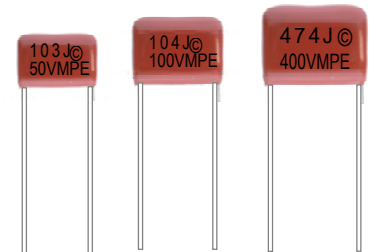
Outline Drawing



Construction



Appearance



MPE are constructed with metallized polyester film dielectric, copperplated lead and epoxy resin coating. They are suitable for blocking, coupling, decoupling, filtering, bypass timing circuit and ideal for use in telecommunication equipments, data processing equipments, industrial instruments, automatic control system and other general electronic equipments.

FEATURES:

- ◆ Wide capacitance, small size and light weight
- ◆ Long life due to self-healing effect
- ◆ Epoxy resin powder coating provides safety, the identical outer appearance
- ◆ Suitable for blocking, by-pass and coupling of DC and

signals to VHF range

- ◆ Widely used in filter and low pulse circuits

SPECIFICATION:

1. OPERATING TEMPERATURE: -40°C~85°C
2. CAPACITANCE RANGE: 0.01µF~10µF
3. CAPACITANCE TOLERANCE: ±5%(J), ±10%(K), ±20%(L)
4. RATED VOLTAGE: 100VDC, 250VDC, 400VDC; 630VDC
5. DISSIPATION FACTOR: 1.0% MAX AT 1KHZ, 25°C
6. INSULATION RESISTANCE: >30000 MΩ (C ≤ 0.33µF)
>10000 MΩ·µF (C > 0.33µF)

PERFORMANCE

Test Characteristics	Test Methods JIS C 5102	Performance
Withstand voltage: Between terminals	Apply 1.5 times of rated voltage for 60 sec. charge discharge current must be 1A max	Shall be no abnormality
Withstand voltage: Between terminals & enclosure	Apply 2.0 times of rated voltage for 1 to 5 sec	Shall be no abnormality
Insulation resistance: Between terminals	Apply rated voltage ±15% for 60 sec. when rated voltage under 100V. Apply 100V ±15% when rated voltage from 100V to 500V at 20°C	≤0.33µF ≥ 30,000MΩ (2E, 2G, 2J) >9000 MΩ (2A)
Insulation resistance: Between terminals & enclosure		>0.33µF ≥ 10,000MΩ·µF (2E, G, 2J) >3000 MΩ·µF (2A)
Heat proof: Insulation resistance at 85°C	Testing temperature: 85±2°C.	≤0.33µF ≥ 900MΩ at 85°C >0.33µF ≥ 300MΩ·µF at 85°C
Heat proof: Rate of variation of capacitance at 85°C		+5% Within -2% of the value before test
Humidity test: Appearance	Temperature: 40±2°C; Humidity: 90-95% RH +24 Testing time: 500 - 0 Hrs. Apply voltage: rated voltage. After testing, leave it for about 16 Hrs. at standard condition Withstand voltage is 130% rated voltage, 60 sec.	Shall be no abnormality
Humidity test: Withstand voltage		Shall be no abnormality
Humidity test: Insulation resistance		≤0.33µF ≥ 2700MΩ >0.33µF ≥ 900MΩ·µF
Humidity test: Dissipation factor		0.011 (1.1%) Max.
Humidity test: Rate of variation capacitance		Within ±10% of the value before test
Reference Standard	GB 7332 (IEC 60384-2)/ JIS C 5102	



METALLIZED POLYESTER FILM CAPACITOR

M P E
Radial dipped

■ DIMENSIONS:

50VDC/63VDC								100VDC							
Part No.	Cap. (μ F)	Dimensions(mm)					dv/dt V/ μ s	Part No.	Cap. (μ F)	Dimensions(mm)					dv/dt V/ μ s
		W	H	T	P	d Φ				W	H	T	P	d Φ	
MPE103□1JA0-7□□□□□	0.01	10.5	9.0	5.5	7.5	0.6	4	MPE103□2AA1-7□□□□□	0.01	11.0	9.5	5.5	7.5	0.6	8
MPE123□1JA0-7□□□□□	0.012	10.5	9.5	6.0	7.5	0.6	4	MPE123□2AA1-7□□□□□	0.012	11.0	10.0	6.0	7.5	0.6	8
MPE153□1JA0-7□□□□□	0.015	10.5	9.5	6.0	7.5	0.6	4	MPE153□2AA1-7□□□□□	0.015	11.0	10.0	6.0	7.5	0.6	8
MPE183□1JA0-7□□□□□	0.018	10.5	9.5	6.0	7.5	0.6	4	MPE183□2AA1-7□□□□□	0.018	11.0	10.5	6.5	7.5	0.6	8
MPE223□1JA0-7□□□□□	0.022	10.5	9.5	6.0	7.5	0.6	4	MPE223□2AA1-7□□□□□	0.022	11.0	9.5	5.5	7.5	0.6	8
MPE273□1JA0-7□□□□□	0.027	10.5	9.5	6.0	7.5	0.6	4	MPE273□2AA1-7□□□□□	0.027	11.0	10.0	5.5	7.5	0.6	8
MPE333□1JA0-7□□□□□	0.033	10.5	9.5	6.0	7.5	0.6	4	MPE333□2AA1-7□□□□□	0.033	11.0	9.0	5.0	7.5	0.6	8
MPE393□1JA0-7□□□□□	0.039	10.5	9.5	6.0	7.5	0.6	4	MPE393□2AA1-7□□□□□	0.039	11.0	9.5	5.0	7.5	0.6	8
MPE473□1JA0-7□□□□□	0.047	10.5	9.5	6.0	7.5	0.6	4	MPE473□2AA1-7□□□□□	0.047	11.0	9.5	5.5	7.5	0.6	8
MPE563□1JA0-7□□□□□	0.056	10.5	9.5	6.0	7.5	0.6	4	MPE563□2AA1-7□□□□□	0.056	11.0	10.0	5.5	7.5	0.6	8
MPE683□1JA0-7□□□□□	0.068	10.5	9.5	6.0	7.5	0.6	4	MPE683□2AA1-7□□□□□	0.068	11.0	9.5	5.5	7.5	0.6	8
MPE823□1JA0-7□□□□□	0.082	10.5	9.5	6.0	7.5	0.6	4	MPE823□2AA1-7□□□□□	0.082	11.0	9.5	6.0	7.5	0.6	8
MPE104□1JA0-7□□□□□	0.1	10.5	9.5	6.0	7.5	0.6	4	MPE104□2AA1-7□□□□□	0.1	11.0	9.0	5.0	7.5	0.6	8
MPE124□1JA0-7□□□□□	0.12	10.5	10.5	7.0	7.5	0.6	4	MPE124□2AA1-7□□□□□	0.12	11.0	9.0	5.0	7.5	0.6	8
MPE154□1JA0-7□□□□□	0.15	10.5	10.5	7.0	7.5	0.6	4	MPE154□2AA1-7□□□□□	0.15	11.0	9.0	5.0	7.5	0.6	8
MPE184□1JA0-7□□□□□	0.18	10.5	10.5	7.0	7.5	0.6	4	MPE184□2AA1-7□□□□□	0.18	11.0	9.5	5.5	7.5	0.6	8
MPE224□1JA0-7□□□□□	0.22	10.5	10.5	7.0	7.5	0.6	4	MPE224□2AA1-7□□□□□	0.22	11.0	10.0	6.0	7.5	0.6	8
MPE274□1JA0-7□□□□□	0.27	10.5	11.0	8.0	7.5	0.6	4	MPE274□2AA1-7□□□□□	0.27	11.0	10.0	6.0	7.5	0.6	8
MPE334□1JA0-7□□□□□	0.33	10.5	11.0	8.0	7.5	0.6	4	MPE334□2AA3A0□□□□□	0.33	13.0	10.5	6.0	10.0	0.6	6
MPE394□1JA0-7□□□□□	0.39	10.5	11.5	8.0	7.5	0.6	4	MPE394□2AA3A0□□□□□	0.39	13.0	11.0	6.0	10.0	0.6	6
MPE474□1JA0-7□□□□□	0.47	10.5	11.5	8.0	7.5	0.6	4	MPE474□2AA3A0□□□□□	0.47	13.0	11.5	6.5	10.0	0.6	6
MPE564□1JA3A0□□□□□	0.56	13.0	11.5	7.0	10.0	0.6	3	MPE564□2AA3A0□□□□□	0.56	13.0	12.0	7.0	10.0	0.6	6
MPE684□1JA3A0□□□□□	0.68	13.0	11.5	7.0	10.0	0.6	3	MPE684□2AA9A5□□□□□	0.68	19.0	12.0	6.5	15.0	0.6	3
MPE824□1JA3A0□□□□□	0.82	13.0	12.5	7.0	10.0	0.6	3	MPE824□2AA3A5□□□□□	0.82	19.0	13.0	7.0	15.0	0.6	3
MPE105□1JA3A0□□□□□	1.0	13.0	12.5	7.0	10.0	0.8	3	MPE105□2AA9A5□□□□□	1.0	19.0	13.0	7.5	15.0	0.8	3
MPE125□1JA8A5□□□□□	1.2	18.5	14.0	8.0	15.0	0.8	1.5	MPE125□2AA9A5□□□□□	1.2	19.0	14.0	8.0	15.0	0.8	3
MPE155□1JA8A5□□□□□	1.5	18.5	14.0	8.0	15.0	0.8	1.5	MPE155□2AA9A5□□□□□	1.5	19.0	14.5	9.0	15.0	0.8	3
MPE185□1JA8A5□□□□□	1.8	18.5	15.0	10.0	15.0	0.8	1.5	MPE185□2AA9A5□□□□□	1.8	19.0	15.0	9.5	15.0	0.8	3
MPE225□1JA8A5□□□□□	2.2	18.5	15.0	10.0	15.0	0.8	1.5	MPE225□2AB4B0□□□□□	2.2	24.0	15.5	8.5	20.0	0.8	2
MPE275□1JB4B0□□□□□	2.7	24.0	16.0	9.0	20.0	0.8	1	MPE275□2AB4B0□□□□□	2.7	24.0	16.0	9.0	20.0	0.8	2
MPE335□1JB4B0□□□□□	3.3	24.0	17.0	10.0	20.0	0.8	1	MPE335□2A84B0□□□□□	3.3	24.0	17.0	10.0	20.0	0.8	2
MPE395□1JB4B0□□□□□	3.9	24.0	18.0	10.5	20.0	0.8	1	MPE395□2AB4B0□□□□□	3.9	24.0	18.0	10.5	20.0	0.8	2
MPE475□1JB9B5□□□□□	4.7	29.0	18.0	10.5	25.0	0.8	1	MPE475□2AB9B5□□□□□	4.7	29.0	18.0	10.5	25.0	0.8	1
MPE565□1JB9B5□□□□□	5.6	29.0	18.5	11.0	25.0	0.8	1	MPE565□2AB9B5□□□□□	5.6	29.0	18.5	11.0	25.0	0.8	1
MPE685□1JB9B5□□□□□	6.8	29.0	19.5	12.0	25.0	0.8	1	MPE685□2AB9B5□□□□□	6.8	29.0	19.5	12.0	25.0	0.8	1
MPE825□1JB9B5□□□□□	8.2	29.0	20.5	13.0	25.0	0.8	1	MPE825□2AB9B5□□□□□	8.2	29.0	20.5	13.0	25.0	0.8	1
MPE106□1JB9B5□□□□□	10	29.0	22.0	14.5	25.0	0.8	1	MPE106□2AB9B5□□□□□	10	29.0	22.0	14.5	25.0	0.8	1



METALLIZED POLYESTER FILM CAPACITOR

M P E
Radial dipped

■ DIMENSIONS:

250VDC								400VDC							
Part No.	Cap. (μF)	Dimensions(mm)					dv/dt V/μs	Part No.	Cap. (μF)	Dimensions(mm)					dv/dt V/μs
		W	H	T	P	dΦ				W	H	T	P	dΦ	
MPE103□2EA1-7□□□□□	0.01	1.0	9.5	5.5	7.5	0.6	13	MPE103□2GA1-7□□□□□	0.01	11.0	9.5	5.5	7.5	0.6	22
MPE123□2EA1-7□□□□□	0.012	11.0	10.0	6.0	7.5	0.6	13	MPE123□2GA1-7□□□□□	0.012	11.0	10.0	6.0	7.5	0.6	22
MPE153□2EA1-7□□□□□	0.015	1.0	0.0	6.0	7.5	0.6	13	MPE153□2GA1-7□□□□□	0.015	11.0	10.0	5.0	7.5	0.6	22
MPE183□2EA1-7□□□□□	0.018	11.0	10.5	6.5	7.5	0.6	13	MPE183□2GA1-7□□□□□	0.018	11.0	10.5	6.5	7.5	0.6	22
MPE223□2EA1-7□□□□□	0.022	1.0	9.5	5.5	7.5	0.6	13	MPE223□2GA1-7□□□□□	0.022	11.0	9.5	5.5	7.5	0.6	22
MPE273□2EA1-7□□□□□	0.027	11.0	10.0	6.0	7.5	0.6	13	MPE273□2GA1-7□□□□□	0.027	11.0	10.0	6.0	7.5	0.6	22
MPE333□2EA1-7□□□□□	0.033	1.0	9.0	5.0	7.5	0.6	13	MPE333□2GA1-7□□□□□	0.033	11.0	10.0	5.0	7.5	0.6	22
MPE393□2EA1-7□□□□□	0.039	11.0	9.5	5.0	7.5	0.6	13	MPE393□2GA1-7□□□□□	0.039	11.0	10.5	6.5	7.5	0.6	22
MPE473□2EA1-7□□□□□	0.047	1.0	9.5	5.5	7.5	0.6	13	MPE473□2GA1-7□□□□□	0.047	11.0	11.0	7.0	7.5	0.6	22
MPE563□2EA1-7□□□□□	0.056	11.0	10.0	6.0	7.5	0.6	13	MPE563□2GA1-7□□□□□	0.056	11.0	11.0	6.0	10.0	0.6	20
MPE683□2EA1-7□□□□□	0.068	1.0	9.5	5.5	7.5	0.6	13	MPE683□2GA1-7□□□□□	0.068	13.0	11.5	5.5	0.0	0.6	20
MPE823□2EA1-7□□□□□	0.082	11.0	9.5	6.0	7.5	0.6	13	MPE823□2GA1-7□□□□□	0.082	13.0	12.0	7.0	10.0	0.6	20
MPE104□2EA1-7□□□□□	0.1	1.0	0.0	6.0	7.5	0.6	13	MPE104□2GA1-7□□□□□	0.1	13.0	12.0	7.0	0.0	0.8	20
MPE124□2EA1-7□□□□□	0.12	11.0	10.5	6.5	7.5	0.6	13	MPE124□2GA1-7□□□□□	0.12	13.0	13.0	8.0	10.0	0.8	20
MPE154□2EA1-7□□□□□	0.15	1.0	1.0	7.0	7.5	0.6	13	MPE154□2GA1-7□□□□□	0.15	13.0	12.0	7.5	5.0	0.8	10
MPE184□2EA3A0□□□□□	0.18	13.0	11.0	6.0	10.0	0.6	11	MPE184□2GA3A0□□□□□	0.18	19.0	13.0	8.0	15.0	0.8	10
MPE224□2EA3A0□□□□□	0.22	3.0	1.5	6.5	0.0	0.6	11	MPE224□2GA3A0□□□□□	0.22	19.0	14.0	3.0	5.0	0.8	10
MPE274□2EA3A0□□□□□	0.27	13.0	12.0	7.0	10.0	0.6	11	MPE274□2GA3A0□□□□□	0.27	19.0	14.5	9.0	15.0	0.8	10
MPE334□2EA3A0□□□□□	0.33	3.0	3.0	7.0	0.0	0.6	1	MPE334□2GA3A0□□□□□	0.33	19.0	15.0	3.5	5.0	0.8	10
MPE394□2EA9A5□□□□□	0.39	19.0	12.5	6.5	15.0	0.6	7	MPE394□2GA9A5□□□□□	0.39	19.0	16.0	10.0	15.0	0.8	10
MPE474□2EA9A5□□□□□	0.47	9.0	3.0	7.0	5.0	0.8	7	MPE474□2GA9A5□□□□□	0.47	19.0	17.0	1.0	5.0	0.8	10
MPE564□2EA9A5□□□□□	0.56	19.0	13.0	7.5	15.0	0.8	7	MPE564□2GA9A5□□□□□	0.56	19.0	16.0	10.0	20.0	0.8	6
MPE684□2EA9A5□□□□□	0.68	9.0	4.0	8.0	5.0	0.8	7	MPE684□2GA9A5□□□□□	0.68	24.0	17.0	1.0	0.0	0.8	6
MPE824□2EA9A5□□□□□	0.82	19.0	14.5	9.0	15.0	0.8	7	MPE824□2GA9A5□□□□□	0.82	24.0	18.0	12.0	20.0	0.8	6
MPE105□2EA9A5□□□□□	1.0	9.0	5.0	9.5	5.0	0.8	7	MPE105□2GA9A5□□□□□	1.0	24.0	18.0	1.0	5.0	0.8	5
MPE125□2EB4B0□□□□□	1.2	24.0	14.5	9.0	20.0	0.8	5	MPE125□2GB4B0□□□□□	1.2	29.0	19.0	12.0	25.0	0.8	5
MPE155□2EB4B0□□□□□	1.5	4.0	5.0	9.5	0.0	0.8	5	MPE155□2GB4B0□□□□□	1.5	29.0	20.5	3.0	5.0	0.8	5
MPE185□2EB4B0□□□□□	1.8	24.0	17.0	10.0	20.0	0.8	5	MPE185□2GB4B0□□□□□	1.8	29.0	21.0	12.5	30.0	0.8	4
MPE225□2EB4B0□□□□□	2.2	4.0	8.0	0.5	0.0	0.8	5	MPE225□2GB4B0□□□□□	2.2	34.0	22.5	4.0	0.0	0.8	4
MPE275□2EB4B0□□□□□	2.7	24.0	19.0	12.0	20.0	0.8	5	MPE275□2GB4B0□□□□□	2.7	34.0	24.0	15.0	30.0	0.8	4
MPE335□2E89B5□□□□□	3.3	9.0	9.0	1.5	5.0	0.8	3	MPE335□2G89B5□□□□□	3.3	34.0	25.5	7.0	0.0	0.8	4
MPE395□2EB9B5□□□□□	3.9	29.0	19.5	12.0	25.0	0.8	3	MPE395□2GB9B5□□□□□	3.9	34.0	27.0	18.0	30.0	0.8	4
MPE475□2EB9B5□□□□□	4.7	9.0	1.0	3.5	5.0	0.8	3	MPE475□2GB9B5□□□□□	4.7	34.0	29.0	10.0	0.0	0.8	4
MPE565□2EC4C0□□□□□	5.6	34.0	20.5	13.0	30.0	0.8	2								
MPE685□2EC4C0□□□□□	6.8	4.0	2.5	4.0	0.0	0.8	2								
MPE825□2EC4C0□□□□□	8.2	34.0	24.0	15.0	30.0	0.8	2								
MPE106□2EC4C0□□□□□	10	4.0	5.5	6.5	0.0	0.8	2								

630VDC															
Part No.	Cap. (μF)	Dimensions(mm)					dv/dt V/μs	Part No.	Cap. (μF)	Dimensions(mm)					dv/dt V/μs
		W	H	T	P	dΦ				W	H	T	P	dΦ	
MPE103□2JA3A0□□□□□	0.01	13.0	9.0	5.0	10.0	0.6	30	MPE184□2JA9A5□□□□□	0.18	9.0	6.0	10.0	5.0	0.5	15
MPE123□2JA3A0□□□□□	0.012	13.0	9.0	5.0	10.0	0.6	30	MPE224□2JA9B0□□□□□	0.22	19.0	17.0	11.0	20.0	0.8	10
MPE153□2JA3A0□□□□□	0.015	13.0	9.5	5.5	10.0	0.6	30	MPE274□2JB4B0□□□□□	0.27	24.0	17.0	10.0	20.0	0.5	10
MPE183□2JA3A0□□□□□	0.018	13.0	10.0	6.0	10.0	0.6	30	MPE334□2JB4B0□□□□□	0.33	24.0	18.0	10.4	20.0	0.8	10
MPE223□2JA3A0□□□□□	0.022	13.0	10.0	6.0	10.0	0.6	30	MPE394□2JB4B0□□□□□	0.39	24.0	19.0	11.0	20.0	0.5	10
MPE273□2JA3A0□□□□□	0.027	13.0	10.5	6.5	10.0	0.6	30	MPE474□2JB9B5□□□□□	0.47	29.0	19.0	10.5	25.0	0.8	7.5
MPE333□2JA3A0□□□□□	0.033	13.0	11.0	7.0	10.0	0.6	30	MPE564□2JB9B5□□□□□	0.56	29.0	20.0	11.0	25.0	0.5	7.5
MPE393□2JA3A0□□□□□	0.039	13.0	11.5	7.0	10.0	0.6	30	MPE684□2JB9B5□□□□□	0.68	29.0	21.0	12.5	25.0	0.8	7.5
MPE473□2JA7A5□□□□□	0.047	17.0	12.0	7.0	12.0	0.6	27	MPE824□2JB9B5□□□□□	0.82	29.0	22.0	13.0	25.0	0.5	7.5
MPE563□2JA7A2□□□□□	0.056	17.0	12.5	7.5	12.5	0.6	27	MPE105□2JC4C0□□□□□	1.0	34.0	22.5	13.5	30.0	0.8	5
MPE683□2JA7A5□□□□□	0.068	17.0	13.0	8.0	12.0	0.6	27	MPE125□2JC4C0□□□□□	1.2	34.0	23.0	15.0	30.0	0.5	5
MPE823□2JA7A5□□□□□	0.082	17.0	13.5	8.5	15.0	0.6	15	MPE155□2JC4C0□□□□□	1.5	34.0	25.0	16.0	30.0	0.8	5
MPE104□2JA9A5□□□□□	0.1	19.0	14.0	8.0	15.0	0.8	15	MPE185□2JC4C0□□□□□	1.8	34.0	27.0	18.0	30.0	0.5	5
MPE124□2JA9A5□□□□□	0.12	19.0	14.5	9.0	15.0	0.8	15	MPE225□2JC4C0□□□□□	2.2	34.0	28.5	20.0	30.0	0.8	5
MPE154□2JA9A5□□□□□	0.15	9.0	5.0	9.5	5.0	1.8	15								