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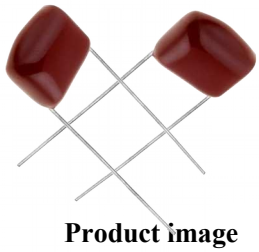
Dimension Lists （mm） Diagram

MPEM

Metallized Polyester Film Capacitor



Product image

Type	Cap (μF)	Rated Voltage	Capacitance Tolerance	Dimensions (mm)					
				W±1	H±1	T±1	P±1	Lmin	Φd
100VDC									
MPEM-100NR7,5/100	0.1uF	100V	J	9.5	6.8	3.5	7.5	25	0.4
MPEM-220NR7.5/100	0.22uF	100V	J	9.5	8.4	5.1	7.5	25	0.4
MPEM-220NR10/100	0.22uF	100V	J	12	8.8	3.9	10	25	0.6
MPEM-330NR7.5/100	0.33uF	100V	J	9.5	9	4.1	7.5	25	0.4
MPEM-330NR10/100	0.33uF	100V	J	12	8.8	3.9	10	25	0.6
MPEM-470NR7.5/100	0.47uF	100V	J	9.5	10.9	6.8	7.5	25	0.4
MPEM-470NR10/100	0.47uF	100V	J	12	9.6	6.3	10	25	0.6
MPEM-470NR15/100	0.47uF	100V	J	17	9.3	4.4	15	25	0.8
MPEM-680NR7.5/100	0.68uF	100V	J	10.5	9.3	6.4	7.5	25	0.4
MPEM-680NR10/100	0.68uF	100V	J	12	11	6.8	10	25	0.6
MPEM-820NR10/100	0.82uF	100V	J	12	11.4	6.5	10	25	0.6
MPEM-820NR15/100	0.82uF	100V	J	17	10.9	6	15	25	0.8
MPEM-1UR10/100	1uF	100V	J	12	7.3	12.2	10	25	0.6
MPEM-2U2R15/100	2.2uF	100V	J	17	16.2	9.7	15	25	0.8
MPEM-3U3R20/100	3.3uF	100V	J	22	17.4	9.3	20	25	0.8
MPEM-3U3R25/100	3.3uF	100V	J	27	16.1	8	25	25	0.8
MPEM-4U7R20/100	4.7uF	100V	J	22	19.6	11.5	20	25	0.8
MPEM-4U7R25/100	4.7uF	100V	J	27	18	9.9	25	25	0.8
MPEM-6U8R27.5/100	6.8uF	100V	J	29	20	12.5	27.5	22	0.8
MPEM-10UR25/100	10uF	100V	J	27	23.5	15.4	25	25	0.8

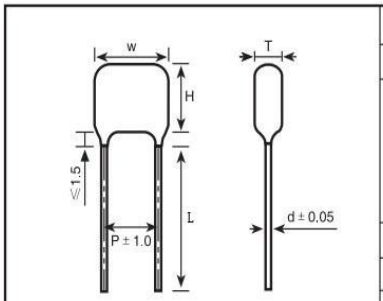
MPEM-10UR27.5/100	10uF	100V	J	29	22.8	14.8	27.5	25	0.8
250VDC									
MPEM-100NR7.5/250	0.1uF	250V	J	9.5	8.5	4.3	7.5	25	0.6
MPEM-680NR20/250	0.68uF	250V	J	22	12	7.1	20	25	0.6
MPEM-820NR20/250	0.82uF	250V	J	22	12.7	7.8	20	25	0.6
MPEM-1UR15/250	1uF	250V	J	17	11.6	6.7	15	25	0.8
MPEM-1UR20/250	1uF	250V	J	21.5	12	7	20	25	0.8
MPEM-2U2R20/250	2.2uF	250V	J	22	14.4	7.9	20	25	0.8
MPEM-3U3R20/250	3.3uF	250V	J	22	16.8	8.7	20	25	0.8
MPEM-3U3R27.5/250	3.3uF	250V	J	29	18.7	10.7	27.5	25	0.8
MPEM-4U7R27.5/250	4.7uF	250V	J	29	19.1	11	27.5	25	0.8
MPEM-4U7R31/250	4.7uF	250V	J	33	20.3	12.1	31	25	0.8
MPEM-6U8R31/250	6.8uF	250V	J	33	22.8	14.6	31	25	0.8
MPEM-10UR31/250	10uF	250V	J	33	29	18.5	31	25	0.8
400VDC									
MPEM-2N2R10/400	0.0022uF	400V	J	12	7	3.7	10	25	0.6
MPEM-3N3R10/400	0.0033uF	400V	J	12	7.3	3.9	10	25	0.6
MPEM-4N7R10/400	0.0047uF	400V	J	12	7.4	4	10	25	0.6
MPEM-6N8R7.5/400	0.0068uF	400V	J	9.5	6.7	3.4	7.5	25	0.4
MPEM-6N8R10/400	0.0068uF	400V	J	12	9	4.1	10	25	0.6
MPEM-10NR7.5/400	0.01uF	400V	J	9.5	8	3.9	7.5	25	0.4
MPEM-10NR10/400	0.01uF	400V	J	12	8.4	5	10	25	0.6
MPEM-22NR7.5/400	0.022uF	400V	J	9.5	8	3.8	7.5	25	0.4
MPEM-22NR10/400	0.022uF	400V	J	12	8	3.8	10	25	0.6
MPEM-33NR7.5/400	0.033uF	400V	J	9.5	8.8	3.9	7.5	25	0.4
MPEM-33NR10/400	0.033uF	400V	J	12	8.9	4	10	25	0.6
MPEM-47NR7.5/400	0.047uF	400V	J	9.5	8.4	4.2	7.5	25	0.4
MPEM-47NR10/400	0.047uF	400V	J	12	8.6	3.7	10	25	0.6
MPEM-68NR7.5/400	0.068uF	400V	J	9.5	9.1	4.2	7.5	25	0.4
MPEM-68NR10/400	0.068uF	400V	J	12	9.5	4.5	10	25	0.6
MPEM-220NR10/400	0.22uF	400V	J	12	8.4	5.1	10	25	0.6

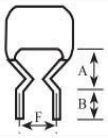
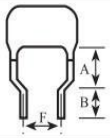
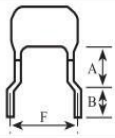
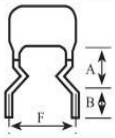
MPEM-330NR10/400	0.33uF	400V	J	12	9.3	5.2	10	25	0.6
MPEM-470NR15/400	0.47uF	400V	J	17	10.6	6.5	15	25	0.8
MPEM-680NR15/400	0.68uF	400V	J	17	11.1	6.2	15	25	0.8
MPEM-820NR15/400	0.82uF	400V	J	16.5	8	14	15	25	0.6
630VDC									
MPEM-100NR10/630	0.1uF	400V	J	12	8.7	5.4	10	25	0.6
MPEM-220NR15/630	0.22uF	400V	J	17	10.1	5.2	15	25	0.6

Metallized Polyester Film Capacitor Type：MPEM

Are non-inductively wound with metalized polyester film as dielectric/electrode with copper-clad steel leads and epoxy resin coating.

Outline Drawing ：



Forming Lead Shapes			
I	II	III	IV
			
P≥F		P<F	
0mm≤P-F≤3mm	3mm<P-F≤8mm	3mm<F-P≤5mm	0mm<F-P≤3mm
F±1.0mm; A≤5.0mm; B=4.5±0.5mm			

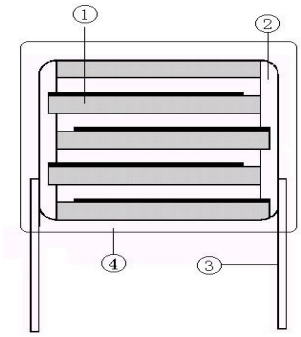
◇ Features：

- High moisture resistance
- Good solder ability
- Non-inductive construction and self-healing property
- Space-Saving small size

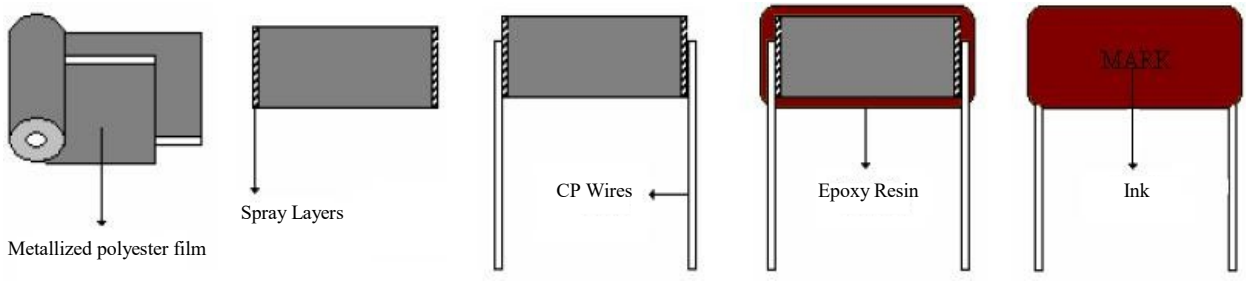
◇ Typical Applications：

- Suitable for blocking ,by-pass and coupling of DC and single to VHF range.
- Widely used in filter ,noise suppression and low pulse circuits.
- Color TV, acoustics, CFL&HID lamps and ballast, telephone, computer, pabx, fax, and instrument table, controller board for home appliance(hair drier, soymilkgrinder, cooker, icebox, airconditioner), torch, power supply,

structure chart：



① Metallized polyester film
② Spray Layers
③ CP Wires
④ Epoxy Resin

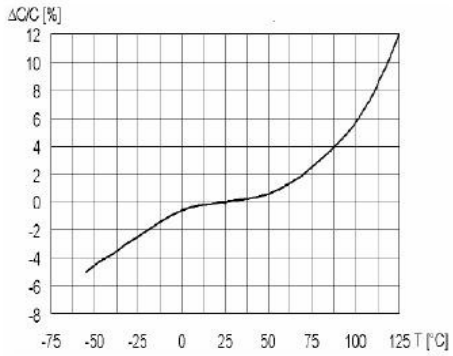


Specification：

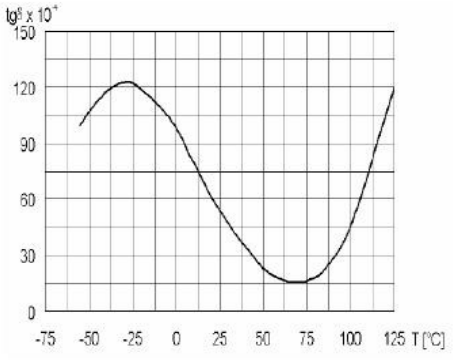
Reference Standards:	GB7335-87(China)IEC60 384-1(International Electric Committee) GB7332-87(China)
Rated Voltage(U_R):	100VDC；250VDC；400VDC；630VDC
温度范围： Operation Temperature Range:	-55℃ - +100℃
Capacitance Range：	MER：0.001μF – 10μF
Capacitance Tolerance Range：	J(±5%)；K(±10%)；M（ ±20% ）
Dielectric：	Polyester Film
Dissipation Factor Tan δ ：	KHz | C≤1μF | >1μF 1 | ≤1.0% | ≤1.0% 10 | ≤1.5% | ≤1.5% 50 | ≤2.2% | ≤2.5%
Insulation Resistance: Between Terminals: 20±5℃ 1Min	50VDC For Ur≤100VDC；100VDC For Ur > 100VDC 50VDC：C≤0.33μF ≥7500MΩ >0.33μF ≥1250 MΩ・S 100VDC：C≤0.33μF ≥10000MΩ >0.33μF ≥5000 MΩ・S
Withstand Voltage:	$2U_R$(10S)
Endurance Test:	120±2℃，$1.25U_R$，1,000Hours

Life. Test Conditions:	Capacitance Drift: ≤±5% of The Initial Value Dissipation Factor C≤1μF ≤5% (10KHz) C>1μF ≤3% (1KHz)

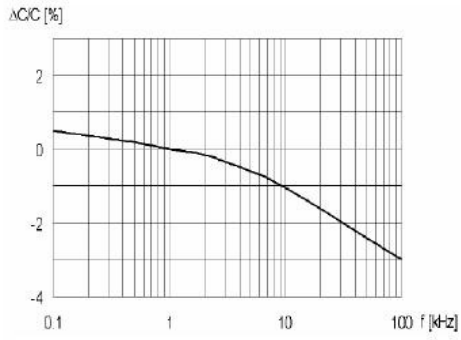
Polyester film capacitor characteristic curve :



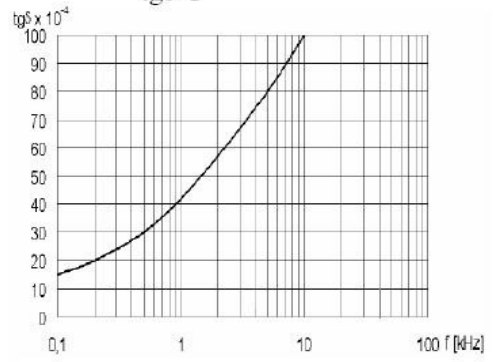
C-T



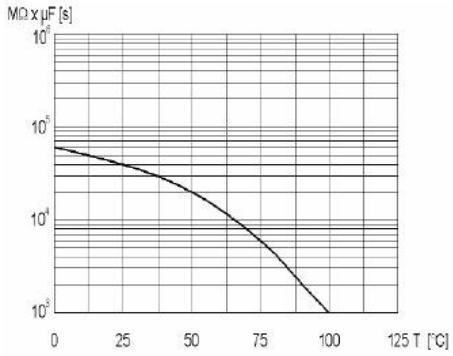
tgδ-T



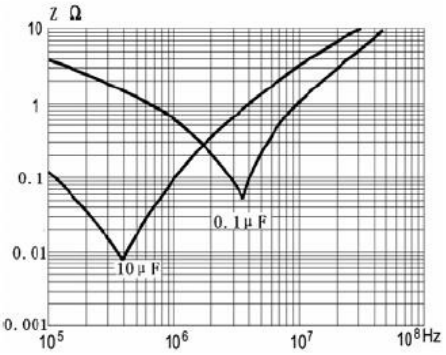
C-f



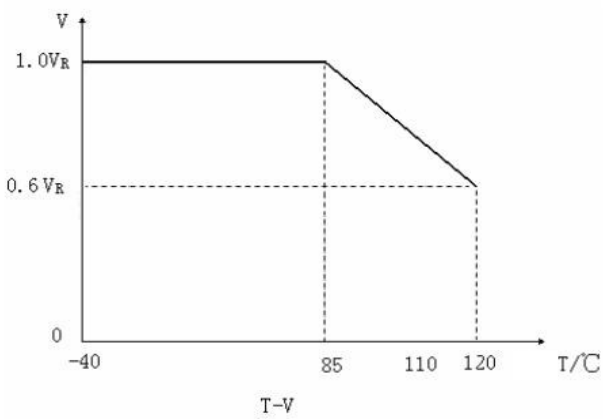
tgδ-f



R-T



Z-f



T-V