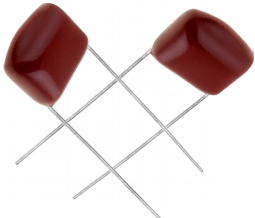


Dimension Lists (mm) Diagram

MPEM Metallized Polyester Film Capacitor				 Product image					
Type	Cap (μ F)	Rated Voltage	Capacitance Tolerance	(mm) Dimensions (mm)					
				W \pm 0.5	H \pm 0.5	T \pm 0.5	P \pm 0.5	Lmin	Φ d
100VDC									
MPEM-100NR7.5/100	0.1 μ F	100V	J	9.5	6.8	3.5	7.5	25	0.4
MPEM-220NR7.5/100	0.22 μ F	100V	J	9.5	8.4	5.1	7.5	25	0.4
MPEM-220NR10/100	0.22 μ F	100V	J	12	8.8	3.9	10	25	0.6
MPEM-330NR7.5/100	0.33 μ F	100V	J	9.5	9	4.1	7.5	25	0.4
MPEM-330NR10/100	0.33 μ F	100V	J	12	8.8	3.9	10	25	0.6
MPEM-470NR7.5/100	0.47 μ F	100V	J	9.5	10.9	6.8	7.5	25	0.4
MPEM-470NR10/100	0.47 μ F	100V	J	12	9.6	6.3	10	25	0.6
MPEM-470NR15/100	0.47 μ F	100V	J	17	9.3	4.4	15	25	0.8
MPEM-680NR7.5/100	0.68 μ F	100V	J	10.5	9.3	6.4	7.5	25	0.4
MPEM-680NR10/100	0.68 μ F	100V	J	12	11	6.8	10	25	0.6
MPEM-820NR10/100	0.82 μ F	100V	J	12	11.4	6.5	10	25	0.6
MPEM-820NR15/100	0.82 μ F	100V	J	17	10.9	6	15	25	0.8
MPEM-1UR10/100	1 μ F	100V	J	12	7.3	12.2	10	25	0.6
MPEM-2U2R15/100	2.2 μ F	100V	J	17	16.2	9.7	15	25	0.8
MPEM-3U3R20/100	3.3 μ F	100V	J	22	17.4	9.3	20	25	0.8
MPEM-3U3R25/100	3.3 μ F	100V	J	27	16.1	8	25	25	0.8
MPEM-4U7R20/100	4.7 μ F	100V	J	22	19.6	11.5	20	25	0.8
MPEM-4U7R25/100	4.7 μ F	100V	J	27	18	9.9	25	25	0.8
MPEM-6U8R27.5/100	6.8 μ F	100V	J	29	19.8	11.8	27.5	25	0.8
MPEM-10UR25/100	10 μ F	100V	J	27	23.5	15.4	25	25	0.8

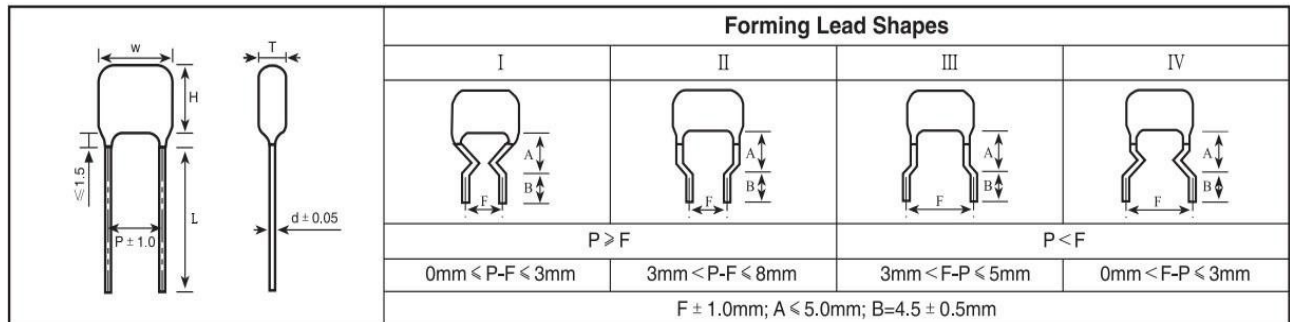
MPEM-10UR27.5/100	10uF	100V	J	29	22.8	14.8	27.5	25	0.8
250VDC									
MPEM-100NR7.5/250	0.1uF	250V	J	9.5	8.5	4.3	7.5	25	0.6
MPEM-680NR20/250	0.68uF	250V	J	22	12	7.1	20	25	0.6
MPEM-820NR20/250	0.82uF	250V	J	22	12.7	7.8	20	25	0.6
MPEM-1UR15/250	1uF	250V	J	17	11.6	6.7	15	25	0.8
MPEM-1UR20/250	1uF	250V	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 metallized polyester film as dielectric/electrode with copper-clad steel leads and epoxy resin coating.

Outline Drawing



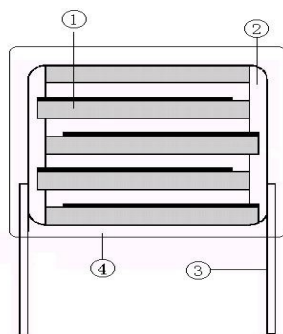
◆ Features :

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

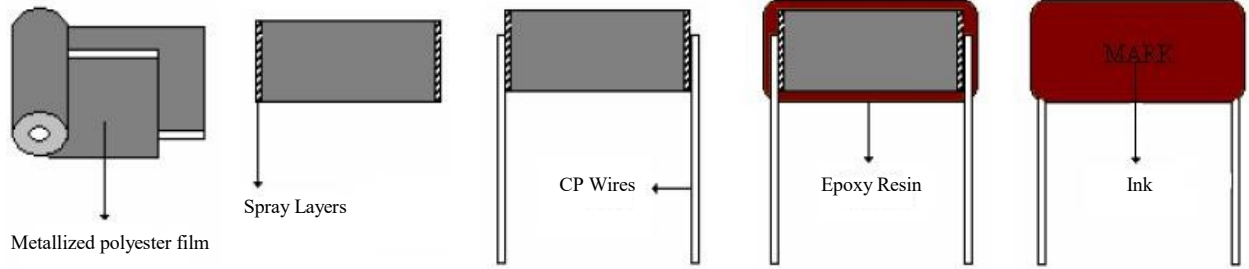
◆ Typical Applications :

- 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°C - +100°C												
Capacitance Range :	MER : 0.001 μ F – 10 μ F												
Capacitance Tolerance Range :	J($\pm 5\%$) ; K($\pm 10\%$) ; M ($\pm 20\%$)												
Dielectric :	Polyester Film												
Dissipation Factor Tan δ :	<table border="1"> <thead> <tr> <th>KHz</th> <th>$C \leq 1 \mu F$</th> <th>$> 1 \mu F$</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>$\leq 1.0\%$</td> <td>$\leq 1.0\%$</td> </tr> <tr> <td>10</td> <td>$\leq 1.5\%$</td> <td>$\leq 1.5\%$</td> </tr> <tr> <td>50</td> <td>$\leq 2.2\%$</td> <td>$\leq 2.5\%$</td> </tr> </tbody> </table>	KHz	$C \leq 1 \mu F$	$> 1 \mu F$	1	$\leq 1.0\%$	$\leq 1.0\%$	10	$\leq 1.5\%$	$\leq 1.5\%$	50	$\leq 2.2\%$	$\leq 2.5\%$
KHz	$C \leq 1 \mu F$	$> 1 \mu F$											
1	$\leq 1.0\%$	$\leq 1.0\%$											
10	$\leq 1.5\%$	$\leq 1.5\%$											
50	$\leq 2.2\%$	$\leq 2.5\%$											
Insulation Resistance: Between Terminals: $20 \pm 5^\circ \text{C}$ 1Min	50VDC For $U_r \leq 100\text{VDC}$; 100VDC For $U_r > 100\text{VDC}$ 50VDC : $C \leq 0.33 \mu F$ $\geq 7500 M \Omega$ $> 0.33 \mu F$ $\geq 1250 M \Omega \cdot S$ 100VDC : $C \leq 0.33 \mu F$ $\geq 10000 M \Omega$ $> 0.33 \mu F$ $\geq 5000 M \Omega \cdot S$												
Withstand Voltage:	$2U_r(10S)$												
Endurance Test:	$120 \pm 2^\circ \text{C}$, $1.25U_r$, 1,000Hours												

Life. Test Conditions:

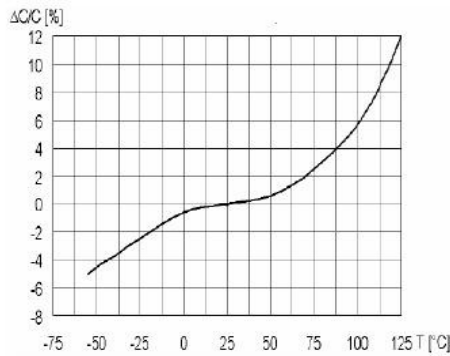
Capacitance Drift: $\leq \pm 5\%$ of The Initial Value

Dissipation Factor

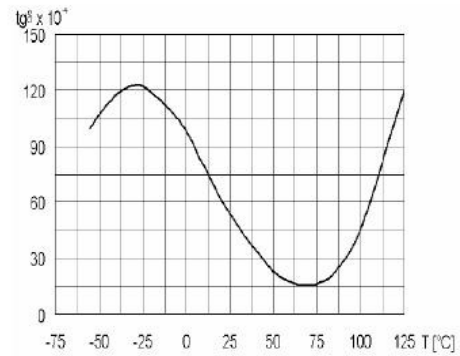
$C \leq 1 \mu F \leq 5\%$ (10KHz)

$C > 1 \mu F \leq 3\%$ (1KHz)

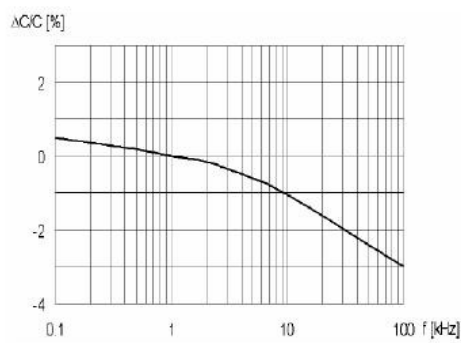
Polyester film capacitor characteristic curve :



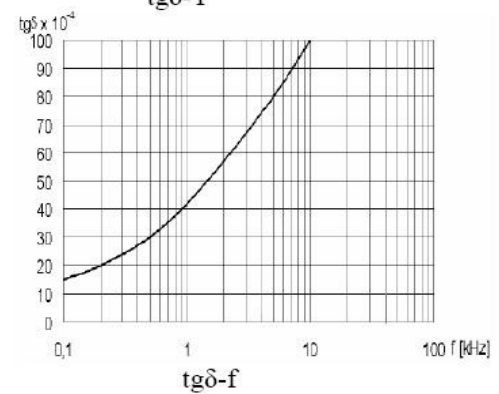
C-T



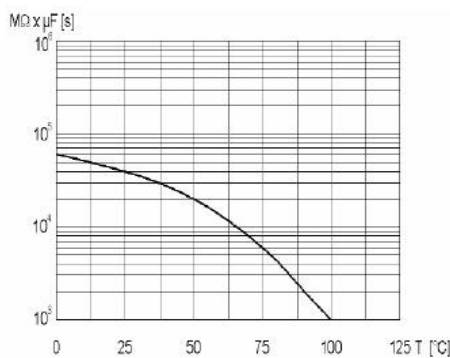
tgδ-T



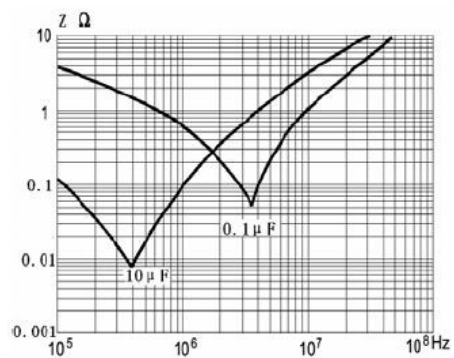
C-f



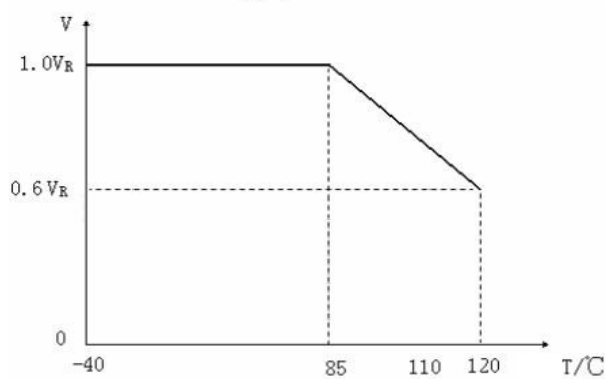
tgδ-f



R-T



Z-f



T-V

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