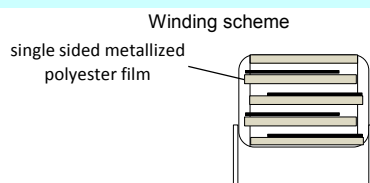


METALLIZED POLYESTER FILM CAPACITOR, D.C. APPLICATIONS

APPLICATION:

blocking, coupling, decoupling, by-passing, interference suppression in low voltage applications (i.e.: AUTOMOTIVE).

FEATURES:

- High reliability
- Box type provides the identical outer appearance

GENERAL TECHNICAL DATA

Construction: Wound technology

Dielectric: polyethylene terephthalate (polyester film, PET)

Metal Layer: aluminum layer deposited by evaporation under vacuum.

Winding: Non-inductive type.

Leads: Tin-plated copper wire.

Plastic case: PBT material with solven resistant & flame retardant according to UL94V0.

Filling: Epoxy Resin with flame retardant according to UL94V0.

Marking: Manufacturer's logo, series, capacitor type, rated voltage, capacitance, tolerance, date code.

Operating temperature range: - 55 to +105°C

Upper operating temperature of 125°C is allowed for a max. operating time of 1000h.

Climatic category: 55/105/56 IEC 60068-1

Related documents: IEC-60384-2

Test Voltage: at 25°C ±5°C

(Between termi 1.6×V_R applied for 2s at +25°C ±5°C.

ELECTRICAL CHARACTERISTICS

Capacitance range: 1000 PF ~ 220µF

Capacitance tolerances: (measured at 1KHZ)
±5%(J); ±10%(K); ±20%(M)

Rated Voltage:

63Vdc-100Vdc-160Vdc-250Vdc
400Vdc-630Vdc-1000Vdc

Rated temperature(T_R): + 85°C

Temperature derated voltage:

for temperatures between +85°C and +125°C a decreasing factor of 1.25% per degree°C on the rated voltage V_R(d.c. and a.c.) has to be applied.

Total self-inductance(L): (Lead length~2mm)

Pitch(mm)	10	15	22.5	27.5	37.5
L(nH)≈	9	10	18	18	22

Dissipation Factor: tgδ 10⁻⁴ At 25°C ±5°C

kHz	C ≤ 1µF	C > 1µF
1	≤ 100	≤ 100
10	≤ 150	

Insulation Resistance:

Test conditions

Temperat+25°C ±5°C

Charge time: 1 Min.

Voltage charge: 50 Vdc for V_R < 100 Vdc

100 Vdc for V_R ≥ 100 Vdc

Performance

For V_R ≤ 100Vdc

C ≤ 0.33µF ≥ 3750 MΩ (typical value 5×10⁴ MΩ)

C > 0.33µF ≥ 1250 s (typical value 5000 s)

For V_R > 100Vdc

C ≤ 0.33µF ≥ 30000MΩ (typical value 5×10⁴ MΩ)

C > 0.33µF ≥ 10000 s (typical value 17000 s)

RELIABILITY TEST METHOD & PERFORMANCE:

Damp heat steady state		Performance	
Test condition	Temperature:	40±2°C	Capacitance change: ≤5%
	Relative humidity:	93%±2%	DF change: ≤50 × 10 ⁻⁴ at 1kHz
	Test duration:	56 days	Insulation resistance: ≥50% of initial limit
Endurance		Performance	
Test condition	Temperature:	+105±2°C	Capacitance change: ≤5%
	Test duration:	2000 h	DF change: ≤50 × 10 ⁻⁴ at 10kHz for C ≤ 1µF
	Voltage applied:	1.25×Vc	≤30 × 10 ⁻⁴ at 1kHz for C > 1µF
Resistance to soldering heat		Performance	
Test condition	Solder bath temperature	260±5°C	Insulation resistance: ≥50% of initial limit
	Dipping time:	10s±1s	
Long term stability(after two years):		Performance	
Storage: standard environmental conditions (see general information page)		Capacitance change: ≤3% for C ≤ 0,1µF	
		≤2% for C > 0,1µF	

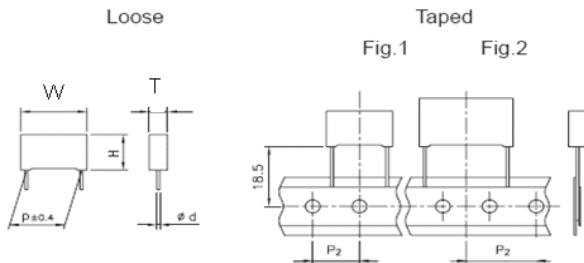


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METALLIZED POLYESTER FILM CAPACITOR, DC APPLICATIONS

Dimension Table



Pitch mm	Box thickness (T) mm	Maximum dimensions (mm)		
		Tmax	Hmax	Wmax
10.0	All	T+0,2	H+0,1	W+0,2
15	<7,5	T+0,2	H+0,1	W+0,3
15.0	≥7,5	T+0,2	H+0,1	W+0,5
22.5	All	T+0,2	H+0,1	W+0,3
27.5	All	T+0,2	H+0,1	W+0,3
37.5	All	T+0,2	H+0,1	W+0,3

All dimensions are in mm

CAP. (µF)	100Vdc/63ac						
	W 2	H	T	P	Ø d	Max dv/dt	Part Number
0.33	18.0	11.0	5.0	15.0	0.6	3.0	GPMKT334 - 0100P15 ---
0.47	18.0	11.0	5.0	15.0	0.6	3.0	GPMKT474 - 0100P15 ---
0.68	18.0	11.0	5.0	15.0	0.6	3.0	GPMKT684 - 0100P15 ---
1.0	18.0	11.0	5.0	15.0	0.6	3.0	GPMKT105 - 0100P15 ---
1.5	18.0	13.5	7.5	15.0	0.8	3.0	GPMKT155 - 0100P15 ---
2.2	18.0	14.5	8.5	15.0	0.8	3.0	GPMKT225 - 0100P15 ---
3.3	18.0	16.0	10.0	15.0	0.8	3.0	GPMKT335 - 0100P15 ---
4.7	18.0	19.0	11.0	15.0	0.8	3.0	GPMKT475 - 0100P15 ---
15	26.5	15.0	6.0	22.5	0.8	2.0	GPMKT155 - 0100P22 ---
2.2	26.5	15.0	6.0	22.5	0.8	2.0	GPMKT225 - 0100P22 ---
3.3	26.5	16.0	7.0	22.5	0.8	2.0	GPMKT335 - 0100P22 ---
4.7	26.5	17.0	8.5	22.5	0.8	2.0	GPMKT475 - 0100P22 ---
6.8	26.5	18.5	10.0	22.5	0.8	2.0	GPMKT685 - 0100P22 ---
10.0	26.5	22.0	13.0	22.5	0.8	2.0	GPMKT106 - 0100P22 ---
4.7	32.0	17.0	9.0	27.5	0.8	1.5	GPMKT475 - 0100P27 ---
6.8	32.0	17.0	9.0	27.5	0.8	1.5	GPMKT685 - 0100P27 ---
10.0	32.0	17.0	9.0	27.5	0.8	1.5	GPMKT106 - 0100P27 ---
15.0	32.0	20.0	11.0	27.5	0.8	1.5	GPMKT156 - 0100P27 ---
22.0	32.0	22.0	13.0	27.5	0.8	1.5	GPMKT226 - 0100P27 ---
33.0	32.0	28.0	14.0	27.5	0.8	1.5	GPMKT336 - 0100P27 ---
47.0	32.0	33.0	18.0	27.5	0.8	1.5	GPMKT476 - 0100P27 ---
68.0	32.0	37.0	22.0	27.5	0.8	1.5	GPMKT686 - 0100P27 ---
15.0	41.5	22.0	11.0	37.5	0.8	1.0	GPMKT156 - 0100P37 ---
22.0	41.5	22.0	11.0	37.5	0.8	1.0	GPMKT226 - 0100P37 ---
33.0	41.5	24.0	13.0	37.5	0.8	1.0	GPMKT336 - 0100P37 ---
47.0	41.5	28.5	16.0	37.5	0.8	1.0	GPMKT476 - 0100P37 ---
68.0	41.5	32.0	19.0	37.5	0.8	1.0	GPMKT686 - 0100P37 ---
100.0	41.5	40.0	20.0	37.5	0.8	1.0	GPMKT107 - 0100P37 ---
150.0	41.5	44.0	24.0	37.5	0.8	1.0	GPMKT157 - 0100P37 ---

Tolerance: J(±5%); K(±10%); M(±20%)

Lead length/package code

Internal use

CAP. (µF)	63Vdc/40ac						Part Number
	W	H	T	P	Ø d	Max dv/dt (V/µs)	
0.68	18.0	11.0	5.0	15.0	0.6	2.5	GPMKT684 - 0063P15 ---
1.0	18.0	11.0	5.0	15.0	0.6	2.5	GPMKT105 - 0063P15 ---
1.5	18.0	11.0	5.0	15.0	0.6	2.5	GPMKT155 - 0063P15 ---
2.2	18.0	12.0	6.0	15.0	0.8	2.5	GPMKT225 - 0063P15 ---
3.3	18.0	13.5	7.5	15.0	0.8	2.5	GPMKT335 - 0063P15 ---
4.7	18.0	14.5	8.5	15.0	0.8	2.5	GPMKT475 - 0063P15 ---
6.8	18.0	16.0	10.0	15.0	0.8	2.5	GPMKT685 - 0063P15 ---
3.3	26.5	15.0	6.0	22.5	0.8	1.5	GPMKT335 - 0063P22 ---
4.7	26.5	16.0	7.0	22.5	0.8	1.5	GPMKT475 - 0063P22 ---
6.8	26.5	16.0	7.0	22.5	0.8	1.5	GPMKT685 - 0063P22 ---
10.0	26.5	17.0	8.5	22.5	0.8	1.5	GPMKT106 - 0063P22 ---
15.0	26.5	20.0	11.0	22.5	0.8	1.5	GPMKT156 - 0063P22 ---
10.0	32.0	17.0	9.0	27.5	0.8	1.0	GPMKT106 - 0063P27 ---
15.0	32.0	17.0	9.0	27.5	0.8	1.0	GPMKT156 - 0063P27 ---
22.0	32.0	20.0	11.0	27.5	0.8	1.0	GPMKT226 - 0063P27 ---
33.0	32.0	22.0	13.0	27.5	0.8	1.0	GPMKT336 - 0063P27 ---
47.0	32.0	28.0	14.0	27.5	0.8	1.0	GPMKT476 - 0063P27 ---
68.0	32.0	33.0	18.0	27.5	0.8	1.0	GPMKT686 - 0063P27 ---
100.0	32.0	37.0	22.0	27.5	0.8	1.0	GPMKT107 - 0063P27 ---
22.0	41.5	22.0	11.0	37.5	0.8	0.8	GPMKT226 - 0063P37 ---
33.0	41.5	22.0	11.0	37.5	0.8	0.8	GPMKT336 - 0063P37 ---
47.0	41.5	24.0	13.0	37.5	0.8	0.8	GPMKT476 - 0063P37 ---
68.0	41.5	32.0	19.0	37.5	0.8	0.8	GPMKT686 - 0063P37 ---
100.0	41.5	32.0	19.0	37.5	0.8	0.8	GPMKT107 - 0063P37 ---
150.0	41.5	40.0	20.0	37.5	0.8	0.8	GPMKT157 - 0063P37 ---
220.0	41.5	44.0	24.0	37.5	0.8	0.8	GPMKT227 - 0063P37 ---

CAP.	160Vdc/90ac						Part Number
	W	H	T	P	Ø d	Max dv/dt	
0.33	18.0	11.0	5.0	15.0	0.6	9.0	GPMKT334 - 0160P15 ---
0.47	18.0	11.0	5.0	15.0	0.6	9.0	GPMKT474 - 0160P15 ---
0.68	18.0	11.0	5.0	15.0	0.6	9.0	GPMKT684 - 0160P15 ---
1.0	18.0	13.5	7.5	15.0	0.8	9.0	GPMKT105 - 0160P15 ---
1.5	18.0	14.5	8.5	15.0	0.8	9.0	GPMKT155 - 0160P15 ---
2.2	18.0	16.0	10.0	15.0	0.8	9.0	GPMKT225 - 0160P15 ---
3.3	18.0	19.0	11.0	15.0	0.8	9.0	GPMKT335 - 0160P15 ---
15.0	26.5	15.0	6.0	22.5	0.8	5.5	GPMKT155 - 0160P22 ---
2.2	26.5	16.0	7.0	22.5	0.8	5.5	GPMKT225 - 0160P22 ---
3.3	26.5	17.0	8.5	22.5	0.8	5.5	GPMKT335 - 0160P22 ---
4.7	26.5	20.0	11.0	22.5	0.8	5.5	GPMKT475 - 0160P22 ---
6.8	26.5	22.0	13.0	22.5	0.8	5.5	GPMKT685 - 0160P22 ---
3.3	32.0	17.0	9.0	27.5	0.8	3.0	GPMKT335 - 0160P27 ---
4.7	32.0	17.0	9.0	27.5	0.8	3.0	GPMKT475 - 0160P27 ---
6.8	32.0	17.0	9.0	27.5	0.8	3.0	GPMKT685 - 0160P27 ---
10.0	32.0	17.0	9.0	27.5	0.8	3.0	GPMKT106 - 0160P27 ---
15.0	32.0	20.0	11.0	27.5	0.8	3.0	GPMKT156 - 0160P27 ---
22.0	32.0	22.0	13.0	27.5	0.8	3.0	GPMKT226 - 0160P27 ---
33.0	32.0	28.0	14.0	27.5	0.8	3.0	GPMKT336 - 0160P27 ---
47.0	32.0	33.0	18.0	27.5	0.8	3.0	GPMKT476 - 0160P27 ---
68.0	32.0	37.0	22.0	27.5	0.8	3.0	GPMKT686 - 0160P27 ---
10.0	41.5	22.0	11.0	37.5	0.8	2.0	GPMKT106 - 0160P37 ---
15.0	41.5	22.0	11.0	37.5	0.8	2.0	GPMKT156 - 0160P37 ---
22.0	41.5	22.0	11.0	37.5	0.8	2.0	GPMKT226 - 0160P37 ---
33.0	41.5	24.0	13.0	37.5	0.8	2.0	GPMKT336 - 0160P37 ---
47.0	41.5	28.5	16.0	37.5	0.8	2.0	GPMKT476 - 0160P37 ---
68.0	41.5	32.0	19.0	37.5	0.8	2.0	GPMKT686 - 0160P37 ---
100.0	41.5	40.0	20.0	37.5	0.8	2.0	GPMKT107 - 0160P37 ---
150.0	41.5	45.0	30.0	37.5	0.8	2.0	GPMKT157 - 0160P37 ---

Tolerance: J(±5%); K(±10%); M(±20%)

Lead length/package code

Internal use

Note: If the working voltage (V) is lower than the rated voltage (V_R), the capacitor may work at higher dv/dt. In this case the maximum value allowed is obtained multiplying the above value (see table dv/dt) with the ratio V_R/V .



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METALLIZED POLYESTER FILM CAPACITOR, DC APPLICATIONS

Dimension Table

CAP. (μ F)	250Vdc/160ac						
	W	H	T	P	$\varnothing$ d	Max dv/dt (V/ μ s)	Part Number
0.10	18.0	11.0	5.0	15.0	0.6	12	GPMKT104 - 0250P15 ---
0.15	18.0	11.0	5.0	15.0	0.6	12	GPMKT154 - 0250P15 ---
0.22	18.0	11.0	5.0	15.0	0.6	12	GPMKT224 - 0250P15 ---
0.33	18.0	11.0	5.0	15.0	0.6	12	GPMKT334 - 0250P15 ---
0.47	18.0	12.0	6.0	15.0	0.8	12	GPMKT474 - 0250P15 ---
0.68	18.0	13.5	7.5	15.0	0.8	12	GPMKT684 - 0250P15 ---
1.0	18.0	14.5	8.5	15.0	0.8	12	GPMKT105 - 0250P15 ---
1.5	18.0	16.0	10.0	15.0	0.8	12	GPMKT155 - 0250P15 ---
0.47	26.5	15.0	6.0	22.5	0.8	8	GPMKT474 - 0250P22 ---
0.68	26.5	15.0	6.0	22.5	0.8	8	GPMKT684 - 0250P22 ---
1.0	26.5	15.0	6.0	22.5	0.8	8	GPMKT105 - 0250P22 ---
1.5	26.5	16.0	7.0	22.5	0.8	8	GPMKT155 - 0250P22 ---
2.2	26.5	18.5	10.0	22.5	0.8	8	GPMKT225 - 0250P22 ---
3.3	26.5	20.0	11.0	22.5	0.8	8	GPMKT335 - 0250P22 ---
1.5	32.0	17.0	9.0	27.5	0.8	5	GPMKT155 - 0250P27 ---
2.2	32.0	17.0	9.0	27.5	0.8	5	GPMKT225 - 0250P27 ---
3.3	32.0	17.0	9.0	27.5	0.8	5	GPMKT335 - 0250P27 ---
4.7	32.0	17.0	9.0	27.5	0.8	5	GPMKT475 - 0250P27 ---
6.8	32.0	20.0	11.0	27.5	0.8	5	GPMKT685 - 0250P27 ---
10.0	32.0	22.0	13.0	27.5	0.8	5	GPMKT106 - 0250P27 ---
15.0	32.0	28.0	14.0	27.5	0.8	5	GPMKT156 - 0250P27 ---
22.0	32.0	33.0	18.0	27.5	0.8	5	GPMKT226 - 0250P27 ---
33.0	32.0	37.0	22.0	27.5	0.8	5	GPMKT336 - 0250P27 ---
4.7	41.5	22.0	11.0	37.5	0.8	4	GPMKT475 - 0250P37 ---
6.8	41.5	22.0	11.0	37.5	0.8	4	GPMKT685 - 0250P37 ---
10.0	41.5	22.0	11.0	37.5	0.8	4	GPMKT106 - 0250P37 ---
15.0	41.5	24.0	13.0	37.5	0.8	4	GPMKT156 - 0250P37 ---
22.0	41.5	28.5	16.0	37.5	0.8	4	GPMKT226 - 0250P37 ---
33.0	41.5	32.0	19.0	37.5	0.8	4	GPMKT336 - 0250P37 ---
47.0	41.5	40.0	20.0	37.5	0.8	4	GPMKT476 - 0250P37 ---
68.0	41.5	44.0	24.0	37.5	0.8	4	GPMKT686 - 0250P37 ---

CAP. (µF)	630Vdc/220ac						Part Number
	W	H	T	P	Ø d	µax dv/dt (V/µs)	
0.0047	13.0	9.0	4.0	10.0	0.6	40	GPMKT472 - 0630P10 ---
0.0068	13.0	9.0	4.0	10.0	0.6	40	GPMKT682 - 0630P10 ---
0.010	13.0	9.0	4.0	10.0	0.6	40	GPMKT103 - 0630P10 ---
0.015	13.0	9.0	4.0	10.0	0.6	40	GPMKT153 - 0630P10 ---
0.022	13.0	9.0	4.0	10.0	0.6	40	GPMKT223 - 0630P10 ---
0.033	13.0	11.0	5.0	10.0	0.6	40	GPMKT333 - 0630P10 ---
0.047	13.0	12.0	6.0	10.0	0.6	40	GPMKT473 - 0630P10 ---
0.033	18.0	11.0	5.0	15.0	0.6	25	GPMKT333 - 0630P15 ---
0.047	18.0	11.0	5.0	15.0	0.6	25	GPMKT473 - 0630P15 ---
0.068	18.0	11.0	5.0	15.0	0.6	25	GPMKT683 - 0630P15 ---
0.10	18.0	12.0	6.0	15.0	0.8	25	GPMKT104 - 0630P15 ---
0.15	18.0	13.5	7.5	15.0	0.8	25	GPMKT154 - 0630P15 ---
0.22	18.0	14.5	8.5	15.0	0.8	25	GPMKT224 - 0630P15 ---
0.3	18.0	16.0	10.0	15.0	0.8	25	GPMKT334 - 0630P15 ---
0.10	26.5	15.0	6.0	22.5	0.8	12	GPMKT104 - 0630P22 ---
0.15	26.5	15.0	6.0	22.5	0.8	12	GPMKT154 - 0630P22 ---
0.22	26.5	15.0	6.0	22.5	0.8	12	GPMKT224 - 0630P22 ---
0.33	26.5	16.0	7.0	22.5	0.8	12	GPMKT334 - 0630P22 ---
0.47	26.5	18.5	10.0	22.5	0.8	12	GPMKT474 - 0630P22 ---
0.7	26.5	20.0	11.0	22.5	0.8	12	GPMKT684 - 0630P22 ---
0.33	32.0	17.0	9.0	27.5	0.8	10	GPMKT334 - 0630P27 ---
0.47	32.0	17.0	9.0	27.5	0.8	10	GPMKT474 - 0630P27 ---
0.68	32.0	20.0	11.0	27.5	0.8	10	GPMKT684 - 0630P27 ---
1.0	32.0	20.0	11.0	27.5	0.8	10	GPMKT105 - 0630P27 ---
1.5	32.0	33.0	18.0	27.5	0.8	10	GPMKT155 - 0630P27 ---
2.2	32.0	33.0	18.0	27.5	0.8	10	GPMKT225 - 0630P27 ---
3.3	32.0	37.0	22.0	27.5	0.8	10	GPMKT335 - 0630P27 ---
4.7	32.0	37.0	22.0	27.5	0.8	10	GPMKT475 - 0630P27 ---
1.0	41.5	22.0	11.0	37.5	0.8	8	GPMKT105 - 0630P37 ---
1.5	41.5	22.0	11.0	37.5	0.8	8	GPMKT155 - 0630P37 ---
2.2	41.5	24.0	13.0	37.5	0.8	8	GPMKT225 - 0630P37 ---
3.3	41.5	28.0	16.0	37.5	0.8	8	GPMKT335 - 0630P37 ---
4.7	41.5	32.0	19.0	37.5	0.8	8	GPMKT475 - 0630P37 ---
6.8	41.5	40.0	20.0	37.5	0.8	8	GPMKT685 - 0630P37 ---
10.0	41.5	44.0	24.0	37.5	0.8	8	GPMKT106 - 0630P37 ---

Tolerance: J($\pm$ 5%); K($\pm$ 10%); M($\pm$ 20%)

Lead length/package code

Internal use

CAP. (μ F)	400Vdc/200ac						
	W	H	T	P	$\varnothing$ d	Max dv/dt (V/ μ s)	Part Number
0.015	13.0	9.0	4.0	10.0	0.6	30	GPMKT153 - 0400P10 ---
0.022	13.0	9.0	4.0	10.0	0.6	30	GPMKT223 - 0400P10 ---
0.033	13.0	9.0	4.0	10.0	0.6	30	GPMKT333 - 0400P10 ---
0.047	13.0	9.0	4.0	10.0	0.6	30	GPMKT473 - 0400P10 ---
0.068	13.0	9.0	4.0	10.0	0.6	30	GPMKT683 - 0400P10 ---
0.10	13.0	11.0	5.0	10.0	0.6	30	GPMKT104 - 0400P10 ---
0.15	13.0	12.0	6.0	10.0	0.6	30	GPMKT154 - 0400P10 ---
0.022	18.0	11.0	5.0	15.0	0.6	20	GPMKT223 - 0400P15 ---
0.047	18.0	11.0	5.0	15.0	0.6	20	GPMKT473 - 0400P15 ---
0.068	18.0	11.0	5.0	15.0	0.6	20	GPMKT683 - 0400P15 ---
0.10	18.0	11.0	5.0	15.0	0.6	20	GPMKT104 - 0400P15 ---
0.15	18.0	11.0	5.0	15.0	0.6	20	GPMKT154 - 0400P15 ---
0.22	18.0	11.0	5.0	15.0	0.6	20	GPMKT224 - 0400P15 ---
0.33	18.0	13.5	7.5	15.0	0.8	20	GPMKT334 - 0400P15 ---
0.47	18.0	13.5	7.5	15.0	0.8	20	GPMKT474 - 0400P15 ---
0.47	18.0	14.5	8.5	15.0	0.8	20	GPMKT474 - 0400P15 ---
0.47	18.0	12.0	13.0	15.0	0.8	20	GPMKT474 - 0400P15 ---
0.68	18.0	16.0	10.0	15.0	0.8	20	GPMKT684 - 0400P15 ---
1.0	18.0	19.0	11.0	15.0	0.8	20	GPMKT105 - 0400P15 ---
0.22	26.5	15.0	6.0	22.5	0.8	10	GPMKT224 - 0400P22 ---
0.33	26.5	15.0	6.0	22.5	0.8	10	GPMKT334 - 0400P22 ---
0.47	26.5	15.0	6.0	22.5	0.8	10	GPMKT474 - 0400P22 ---
0.68	26.5	15.0	6.0	22.5	0.8	10	GPMKT684 - 0400P22 ---
1.0	26.5	17.0	8.5	22.5	0.8	10	GPMKT105 - 0400P22 ---
1.5	26.5	18.5	10.0	22.5	0.8	10	GPMKT155 - 0400P22 ---
1.5	26.5	20.0	11.0	22.5	0.8	10	GPMKT155 - 0400P22 ---
2.2	26.5	22.0	13.0	22.5	0.8	10	GPMKT225 - 0400P22 ---
0.68	32.0	17.0	9.0	27.5	0.8	8.5	GPMKT684 - 0400P27 ---
1.0	32.0	17.0	9.0	27.5	0.8	8.5	GPMKT105 - 0400P27 ---
1.5	32.0	17.0	9.0	27.5	0.8	8.5	GPMKT155 - 0400P27 ---
2.2	32.0	20.0	11.0	27.5	0.8	8.5	GPMKT225 - 0400P27 ---
3.3	32.0	22.0	13.0	27.5	0.8	8.5	GPMKT335 - 0400P27 ---
4.7	32.0	28.0	14.0	27.5	0.8	8.5	GPMKT475 - 0400P27 ---
6.8	32.0	33.0	18.0	27.5	0.8	8.5	GPMKT685 - 0400P27 ---
10.0	32.0	37.0	22.0	27.5	0.8	8.5	GPMKT106 - 0400P27 ---
3.3	41.5	22.0	11.0	37.5	0.8	6	GPMKT335 - 0400P37 ---
4.7	41.5	22.0	11.0	37.5	0.8	6	GPMKT475 - 0400P37 ---
6.8	41.5	24.0	13.0	37.5	0.8	6	GPMKT685 - 0400P37 ---
10.0	41.5	28.0	16.0	37.5	0.8	6	GPMKT106 - 0400P37 ---
15.0	41.5	44.0	24.0	37.5	0.8	6	GPMKT156 - 0400P37 ---
22.0	41.5	44.0	24.0	37.5	0.8	6	GPMKT226 - 0400P37 ---
33.0	41.5	45.0	30.0	37.5	0.8	6	GPMKT336 - 0400P37 ---

CAP. (μ F)	1000Vdc/250ac						
	W	H	T	P	$\varnothing$ d	μ ax dv/dt (V/ μ s)	Part Number
0.0010	13.0	9.0	4.0	10.0	0.6	60	GPMKT102 - 1000P10 ---
0.0015	13.0	9.0	4.0	10.0	0.6	60	GPMKT152 - 1000P10 ---
0.0022	13.0	9.0	4.0	10.0	0.6	60	GPMKT222 - 1000P10 ---
0.0033	13.0	9.0	4.0	10.0	0.6	60	GPMKT332 - 1000P10 ---
0.0047	13.0	11.0	5.0	10.0	0.6	60	GPMKT472 - 1000P10 ---
0.0068	13.0	12.0	6.0	10.0	0.6	60	GPMKT682 - 1000P10 ---
0.010	18.0	11.0	5.0	15.0	0.6	30	GPMKT103 - 1000P15 ---
0.015	18.0	11.0	5.0	15.0	0.6	30	GPMKT153 - 1000P15 ---
0.022	18.0	12.0	6.0	15.0	0.8	30	GPMKT223 - 1000P15 ---
0.033	18.0	13.5	7.5	15.0	0.8	30	GPMKT333 - 1000P15 ---
0.047	18.0	16.0	10.0	15.0	0.8	30	GPMKT473 - 1000P15 ---
0.068	18.0	19.0	11.0	15.0	0.8	30	GPMKT683 - 1000P15 ---
0.033	26.5	15.0	6.0	22.5	0.8	15	GPMKT333 - 1000P22 ---
0.047	26.5	15.0	6.0	22.5	0.8	15	GPMKT473 - 1000P22 ---
0.068	26.5	16.0	7.0	22.5	0.8	15	GPMKT683 - 1000P22 ---
0.10	26.5	17.0	8.5	22.5	0.8	15	GPMKT104 - 1000P22 ---
0.15	26.5	22.0	13.0	22.5	0.8	15	GPMKT154 - 1000P22 ---
0.15	32.0	17.0	9.0	27.5	0.8	12	GPMKT154 - 1000DP27 ---
0.22	32.0	17.0	9.0	27.5	0.8	12	GPMKT224 - 1000P27 ---
0.33	32.0	20.0	11.0	27.5	0.8	12	GPMKT334 - 1000P27 ---
0.47	32.0	22.0	13.0	27.5	0.8	12	GPMKT474 - 1000P27 ---
0.68	32.0	28.0	14.0	27.5	0.8	12	GPMKT684 - 1000P27 ---
1.0	32.0	33.0	18.0	27.5	0.8	12	GPMKT105 - 1000P27 ---
1.5	32.0	37.0	22.0	27.5	0.8	12	GPMKT155 - 1000P27 ---
0.47	41.5	22.0	11.0	37.5	0.8	10	GPMKT474 - 1000P37 ---
0.68	41.5	22.0	11.0	37.5	0.8	10	GPMKT684 - 1000P37 ---
1.0	41.5	24.0	13.0	37.5	0.8	10	GPMKT105 - 1000P37 ---
1.5	41.5	28.0	16.0	37.5	0.8	10	GPMKT155 - 1000P37 ---
2.2	41.5	32.0	19.0	37.5	0.8	10	GPMKT225 - 1000P37 ---
3.3	41.5	44.0	24.0	37.5	0.8	10	GPMKT335 - 1000P37 ---
4.7	41.5	45.0	30.0	37.5	0.8	10	GPMKT475 - 1000P37 ---

**TeCap****GPMKT**

MKT Series

METALLIZED POLYESTER FILM CAPACITOR, DC APPLICATIONS

Part number description

G	P	M	K	T	6	8	4	K	0	0	6	3	P	1	5	0	6	*
1 Type					2 Capacitance			3 Tolerance	4 Rated Voltage	5 Pitch			6 lead length	7 internal code				

1 Type:

GP MKT = General Purpose, film metallized polyester

2 Capacitance

Use 3 digit to represent Capacitance. First 2 digit means capacitance value. The last digit means 0 No. after capacitance value with unit Pico Farad. Show as below:

102= 1000PF= 1.0nF=0.001μF

105= 1000000PF= 1000nF=1.0μF

103= 10000PF= 10nF= 0.01μF

106= 10000000PF= 10000nF= 10μF

104=100000PF= 100nF= 0.1μF

3 Tolerance:

TOLERANCE	±1%	±2%	±3%	±5%	±10%	±20%
CODE	F	G	H	J	K	M

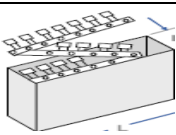
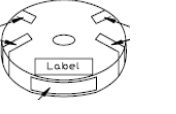
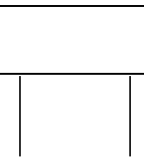
4 Rated Voltage:**DC voltage represent code:**

VOLTAGE	63V	100V	160V	250V	400V	630V	1000V
CODE	0063	0100	0160	0250	0400	0630	1000

5 Pitch Code:

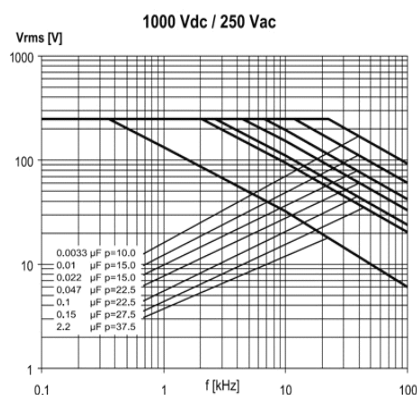
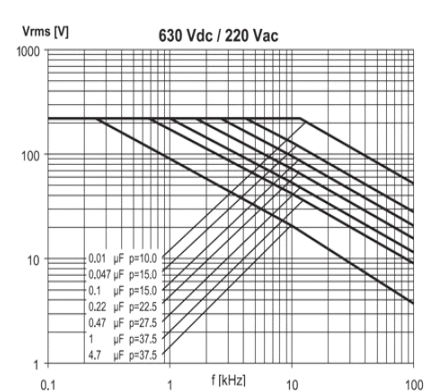
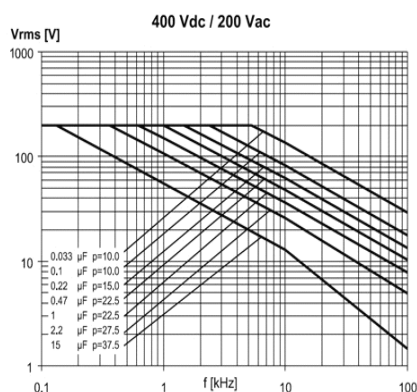
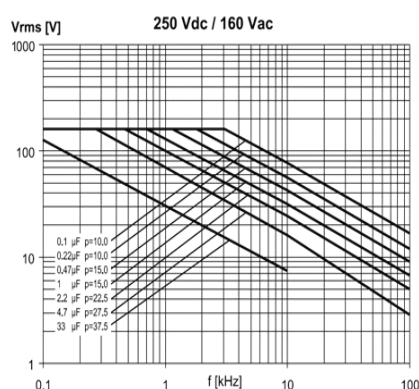
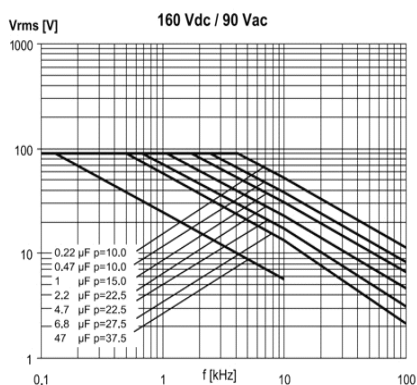
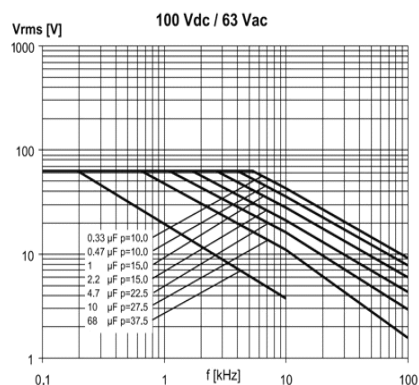
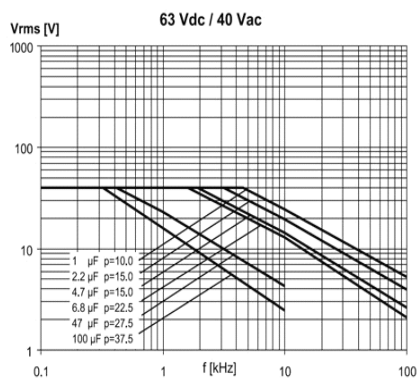
PITCH	5.0	7.5	10	15	22.5	27.5	37.5
CODE	P05	P07	P10	P15	P22	P27	P37

6 Lead length & Box dimensions

CODE	Package	Lead length mm	Drawing	Typing style		
				P ₂ mm	Fig N°	Pitch mm
TB	Ammo-Pack			12.70 19.05	1 2	10,0/15,0 22,5
TR	Reel Taping ø500			12.70 19.05	1 2	10,0/15,0 22,5
06	Loose, short lead wire	6 ⁻²				
30	Loose, long lead wire	30 ⁺⁵				
17	Loose, long lead wire	17 ^{±1}				
25	Loose, long lead wire	25 ^{±1}				

METALLIZED POLYESTER FILM CAPACITOR, DC APPLICATIONS

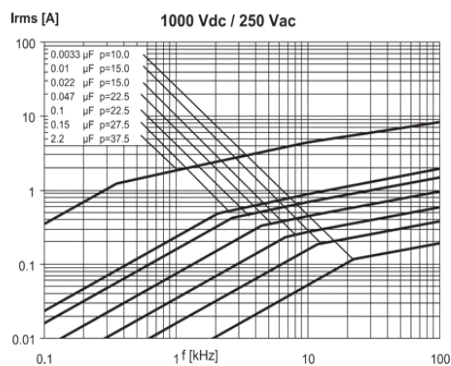
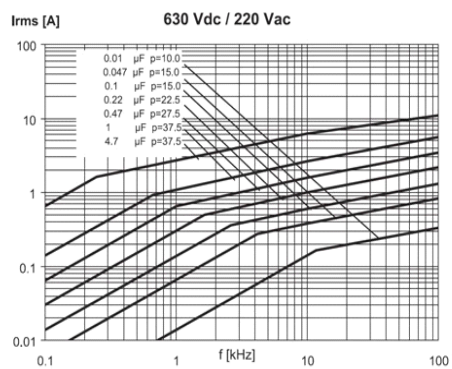
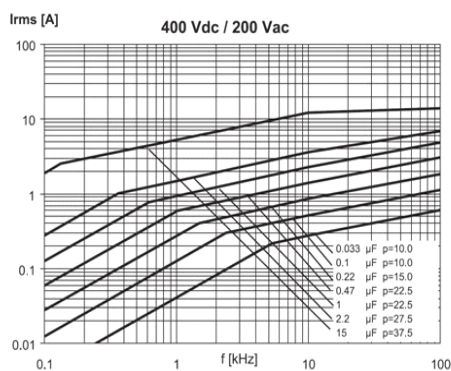
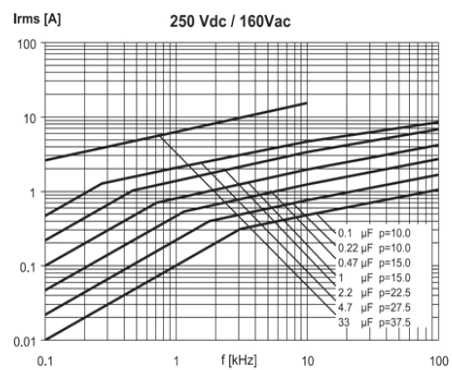
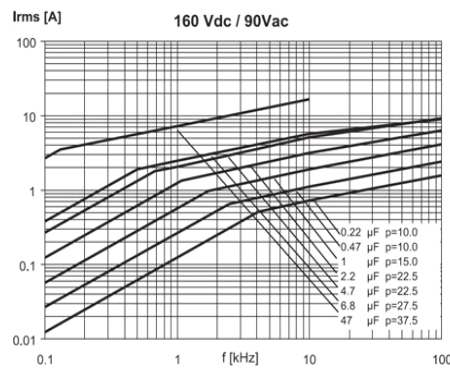
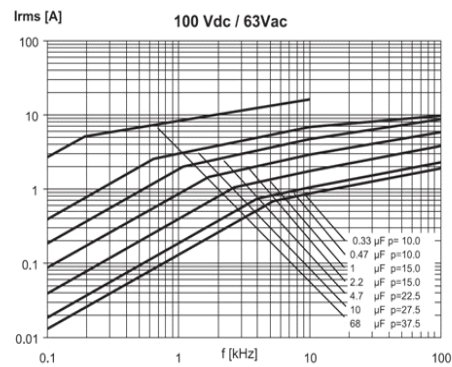
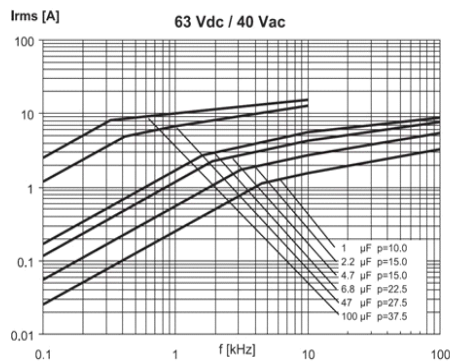
MAX.VOLTAGE(Vr.m.s)VERSUS FREQUENCY(sinusoidal wave-form/Tn ≤ 40°C)



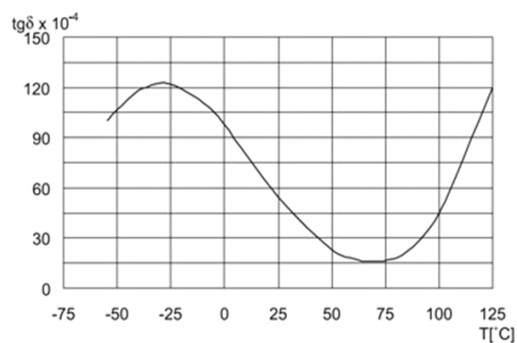
Note: p (pitch) in mm.

METALLIZED POLYESTER FILM CAPACITOR, DC APPLICATIONS

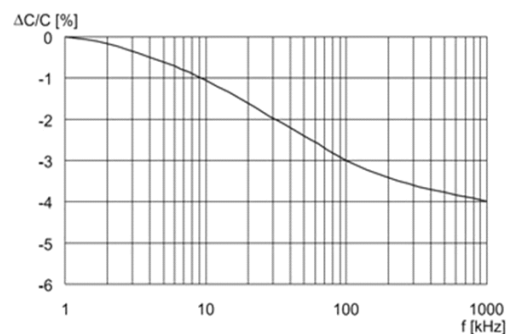
MAX.CURRENT(Ir.m.s)VERSUS FREQUENCY(sinusoidal wave-form/Tn ≤ 40°C)



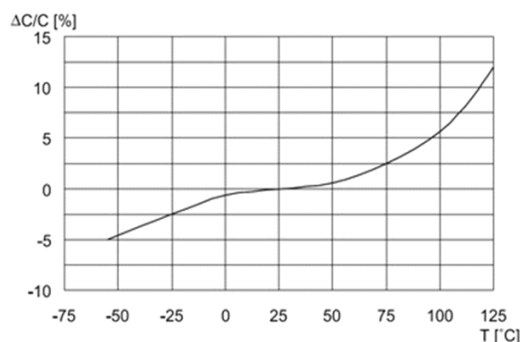
Note: p (pitch) in mm.

POLYESTER FILM - TYPICAL GRAPHS


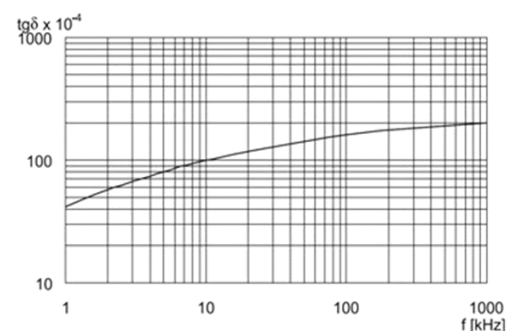
Dissipation factor vs. temperature at 1 kHz



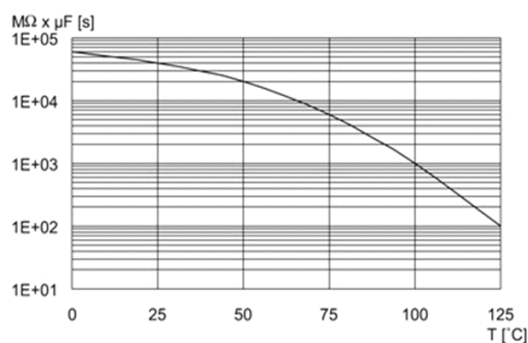
Capacitance change vs. frequency (Room temperature)



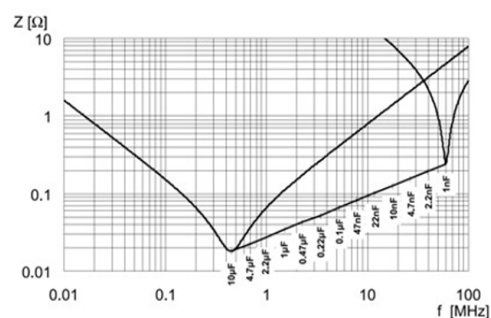
Capacitance change vs. temperature at 1 kHz



Dissipation factor vs. frequency (Room temperature)



Time constant vs. temperature



Impedance vs. frequency

Storage Conditions:

Avoid to store the capacitors in places where the conditions differ from the following:

Storage time: ≤ 24 months from the date marked on the label glued to the package

* Temperature: -40 to 80°C

* Humidity:

Average per year: ≤70% (at an ambient temperature of 40°C)

For 30 full days randomly distributed throughout the year: ≤85%

Dew: absent