



GENERAL INFORMATION

TYPICAL PROPERTIES AND APPLICATIONS.

POLYESTER FILM

Typical Properties:

- High dielectric constant.
- Very good ratio box and dip size capacitance.
- Very wide operating temperature range.
- Good stability.
- Excellent self-healing properties.

Typical Applications:

- Blocking and coupling.
- Decoupling.
- Timing.
- Low filtering.
- By-passing.
- Market sector with professional characteristics.

POLYPROPYLENE FILM

Typical Properties:

- Very low dielectric absorption.
- Good behaviour in frequency.
- Very high insulation resistance.
- Very good stability.
- Excellent self-healing properties.

Typical Applications:

- Pulse applications.
- High current.
- AC Applications.
- SMPS & TV Set.
- Lighting.
- DC-LINK and filtering high Q.
- Timing with high stability.
- Industrial.

DIELECTRIC ABSORPTION(DA)

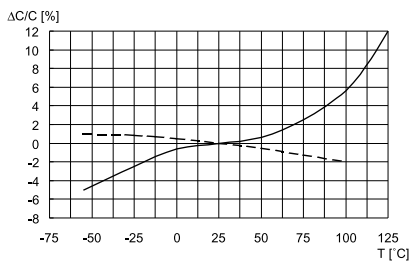
Typical Value 1KHz:

- * Polyester: 0.5
- * Polypropylene: 0.05

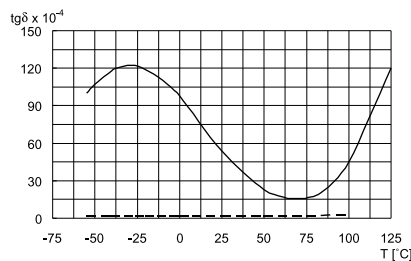
TYPICAL GRAPHS:

————— Polyester

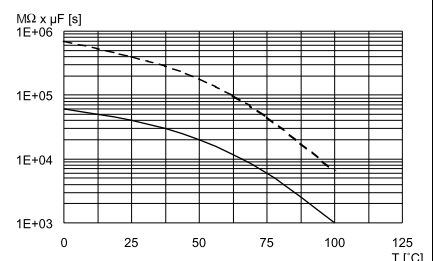
----- Polypropylene



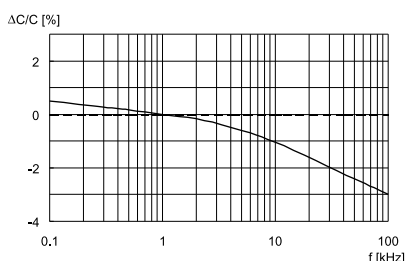
Capacitance change vs. temperature at 1kHz



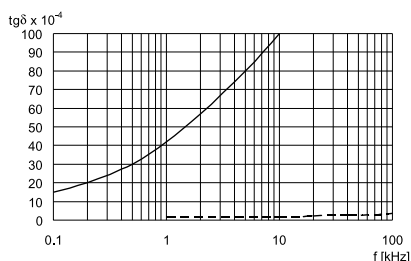
Dissipation factor vs. temperature at 1kHz



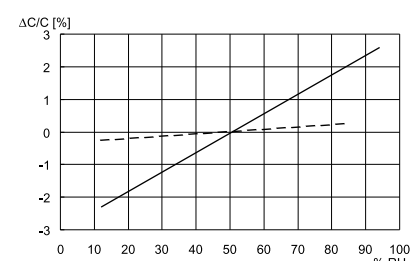
Time constant vs. temperature



Capacitance change vs. frequency (Room temperature)



Dissipation factor vs. frequency (Room temperature)



Capacitance change vs. relative humidity (RH)

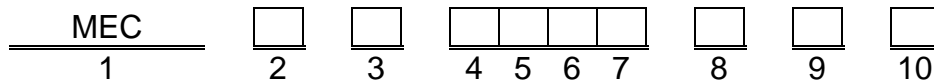


Product

MEC series / Metalized Polyester Film Capacitors, Resin dipped.

PRODUCT CODE SYSTEM

The part number is for MEC as follows:



Digit 1 Series name.

Digit 2 D.C. rated voltage
E = 100V; I = 250V; M = 400V; X = 450V; P = 630V;
Q = 1000V; R = 1250V.

Digit 3 Pitch: (mm)
C = 5; D = 7.5; F = 10; G = 12.5; I = 15;
J = 17.5; N = 22.5; R = 27.5.

Digit 4 to 7 Digits 5-6-7 indicate the first three digits of capacitance value and 4th digit indicates the number of zeros that must be added to obtain the rated capacitance in pF.

Digit 8 Mechanical version
4 = 18mm Min ; 5 = 25+5mm; J = 4.3±0.3mm; K = 3.2±0.3mm;

Digit 9 Capacitance tolerance:
J = ±5%; K = ±10%;

Digit 10 Internal use

GENERAL TECHNICAL DATA

Dielectric: Polyester film

Plates: Aluminum layer deposited by evaporation under vacuum.

Winding: Non-inductive type

Leads: Tinned wire

Protection: Flame-retardant epoxy resin coating (UL94V-0).

Marking: Capacitance, tolerance, DC rated voltage and Series name

Related standard: IEC 60384-2



Specification of MEC Series

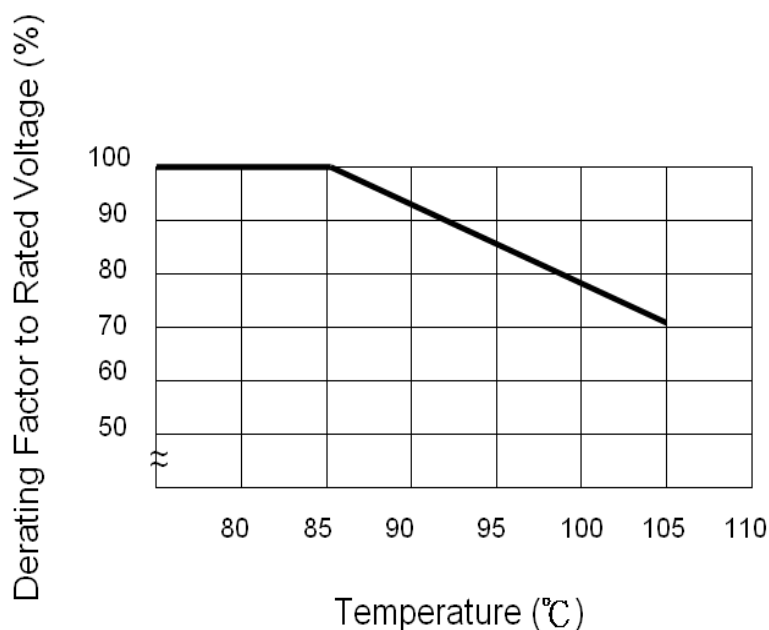
Electrical characteristics

Rated voltage (Vr)	100Vdc, 250Vdc, 400Vdc, 450Vdc, 630Vdc, 1000Vdc, 1250Vdc
Capacitance Range	100Vdc. 0.01~10.0uf. / 250Vdc. 0.001~10.0uf . 400Vdc. 0.001~4.7uf. / 450Vdc. 0.001~3.3uf. 630Vdc. 0.001~2.2.uf / 1000Vdc. 0.001~0.47uf. 1250Vdc. 0.001~0.22uf.
Rated temperature	-40°C ~ +85°C.(+105°C).
Capacitance tolerance Temperature: +25°C Frequency: 1KHz.	±5%, ±10%
D.F value Temperature: +25°C	C > 1μF, D.F ≤ 0.01 at 1Khz C ≤ 1μF, D.F ≤ 0.01 at 1Khz and D.F ≤ 0.015 at 10Khz
Insulation Resistance 100Vdc Temperature: +25°C. Duration: 1 minute.	≥ 15000MΩ for C ≤ 0.33μF. ≥ 5000Ω* F for C > 0.33μF.
Dielectric strength	1.6 x Vr applied for 2 sec at +25°C

Temperature derated voltage:

* For temperature between +85°C and +105°C decreasing factor of 1.5% at per each 1°C. on the rated voltage Vr (dc & ac). has to applied.

1. When using capacitors at temperatures higher than the normally specified maximum temperature, it is necessary to reduce the working voltage as shown in the figures below.





DURA TECH L.L.C.

Specification of MEC Series

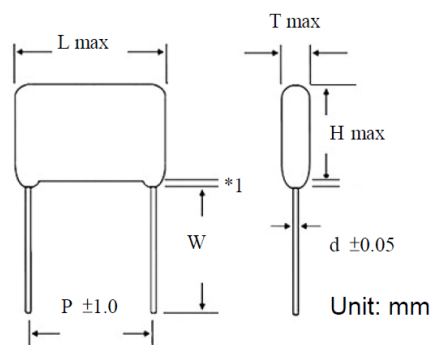
Test Item and performance

Test item	Test condition	Performance
Damp heat, steady state	Temperature: +40°C Humidity: 93% Duration:	$ \Delta C/C \leq 5\%$ D.F increase ≤ 0.008 at 1Khz I.R $\leq 50\%$ of initial value
Dry heat test	Temperature: +85°C Duration: 16Hrs Removal from chamber for test less 4hrs for temperature recovery	$ \Delta C/C \leq 5\%$ $C > 1\mu F$, D.F change ≤ 0.008 at 1Khz $C \leq 1\mu F$, D.F change ≤ 0.015 at 10Khz I.R $\leq 50\%$ of initial value
Cold test	Temperature: -40°C Duration: 2Hrs Removal from chamber for test less 4hrs for temperature recovery	$ \Delta C/C \leq 5\%$ $C > 1\mu F$, D.F change ≤ 0.008 at 1Khz $C \leq 1\mu F$, D.F change ≤ 0.015 at 10Khz I.R $\leq 50\%$ of initial value
Solder ability	Soldering temperature: 230±5°C. Duration: 2±0.5 seconds Dipping/removing speed: 25mm/sec	Leads shall be covered with solder more than 95%.
Soldering heat resistance	Soldering temperature: 260±5°C. Duration: 10 ± 1 seconds	$ \Delta C/C \leq 3\%$ $C > 1\mu F$, D.F change ≤ 0.008 at 1Khz $C \leq 1\mu F$, D.F change ≤ 0.015 at 10Khz I.R $\leq 50\%$ of initial value
Load life test (Endurance)	Temperature: +85°C Test voltage: 1.10x Vr (500Vdc) Duration: 500Hrs Removal from chamber for test less 4hrs for temperature recovery	$ \Delta C/C \leq 5\%$ $C > 1\mu F$, D.F change ≤ 0.008 at 1Khz $C \leq 1\mu F$, D.F change ≤ 0.015 at 10Khz I.R $\leq 50\%$ of initial value
Vibration resistance	It should be no short circuits or open circuits in the element and state of the connection shall be stable. It should be no anomalies in appearance after test.	The frequency shall be varied uniformly from 10Hz to 55Hz at 0.75mm amplitude and back to 10Hz in approximately 1 min intervals. The test shall be applied 2 Hrs per each direction, total 6 Hrs.
Termination strength	Without mechanical damage. as break of terminal damage.	The capacitors shall be fixed and unless otherwise specified. a tensile force of 10N shall be gradually applied to the axial of leads. Then maintained for 30±5 seconds.
Long term stability	Temperature: -40°C ~ +85°C Humidity $\leq 70\%$ for yearly average Duration ≤ 12 months	$ \Delta C/C \leq 3\%$

Specification of MEC Series

Dimension

Part Number	Cap(μF)	100Vdc/63Vac				
		L	H	T	P	d
MECEC2100	0.01	6.9	6.5	3.5	5.0	0.5
MECEC2120	0.012	6.9	6.7	3.7	5.0	0.5
MECEC2150	0.015	6.9	6.9	3.9	5.0	0.5
MECEC2180	0.018	6.9	7.2	4.2	5.0	0.5
MECEC2220	0.022	6.9	6.8	3.8	5.0	0.5
MECEC2270	0.027	6.9	6.4	3.4	5.0	0.5
MECEC2330	0.033	6.9	6.6	3.6	5.0	0.5
MECEC2390	0.039	6.9	6.8	3.8	5.0	0.5
MECEC2470	0.047	6.9	7.0	4.0	5.0	0.5
MECEC2560	0.056	6.9	6.7	3.7	5.0	0.5
MECEC2680	0.068	6.9	6.9	3.9	5.0	0.5
MECEC2820	0.082	6.9	7.2	4.2	5.0	0.5
MECEC3100	0.1	6.9	7.5	4.5	5.0	0.5
MECED3120	0.12	9.3	7.0	4.0	7.5	0.6
MECED3150	0.15	9.3	7.8	4.1	7.5	0.6
MECED3180	0.18	9.3	7.5	3.9	7.5	0.6
MECED3220	0.22	9.3	7.8	4.1	7.5	0.6
MECED3270	0.27	9.3	8.1	4.5	7.5	0.6
MECED3330	0.33	9.3	8.5	4.8	7.5	0.6
MECED3390	0.39	9.3	8.8	5.2	7.5	0.6
MECED3470	0.47	9.3	9.2	5.6	7.5	0.6
MECEF3560	0.56	11.8	8.8	5.2	10.0	0.6
MECEF3680	0.68	11.8	9.3	5.6	10.0	0.6
MECEF3820	0.82	11.8	9.7	6.1	10.0	0.6
MECEF4100	1	11.8	10.3	6.6	10.0	0.6
MECEF4120	1.2	11.8	10.9	7.2	10.0	0.6
MECEF4150	1.5	11.8	11.6	8.0	10.0	0.6
MECEI4180	1.8	17.0	13.1	6.3	15.0	0.8
MECEI4220	2.2	17.0	13.7	6.9	15.0	0.8
MECEI4270	2.7	17.0	14.4	7.6	15.0	0.8
MECEI4330	3.3	17.0	15.0	8.4	15.0	0.8
MECEI4390	3.9	17.0	15.9	9.1	15.0	0.8
MECEN4470	4.7	24.7	16.0	7.6	22.5	0.8
MECEN4560	5.6	24.7	16.7	8.3	22.5	0.8
MECEN4680	6.8	24.7	17.5	9.2	22.5	0.8
MECEN4820	8.2	24.7	18.5	10.1	22.5	0.8
MECEN5100	10	24.7	20.0	10.6	22.5	0.8



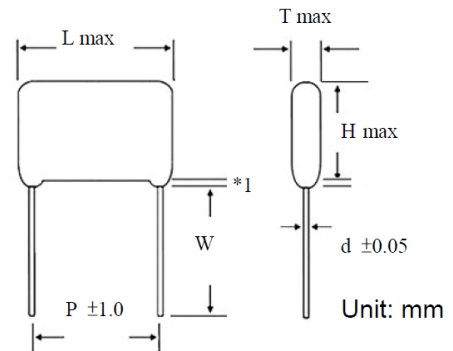
*1 : Max value 1.5mm

W : Please refer to the mechanical version in the product code system.

Specification of MEC Series

Dimension

Part Number	Cap(μF)	250Vdc/125Vac				
		L	H	T	P	d
MECID1100	0.001	10.3	7.0	4.0	7.5	0.6
MECID1120	0.0012	10.3	7.0	4.0	7.5	0.6
MECID1150	0.0015	10.3	7.0	4.0	7.5	0.6
MECID1180	0.0018	10.3	7.0	4.0	7.5	0.6
MECID1220	0.0022	10.3	7.0	4.0	7.5	0.6
MECID1270	0.0027	10.3	7.0	4.0	7.5	0.6
MECID1330	0.0033	10.3	7.0	4.0	7.5	0.6
MECID1390	0.0039	10.3	7.0	4.0	7.5	0.6
MECID1470	0.0047	10.3	7.0	4.0	7.5	0.6
MECID1560	0.0056	10.3	7.0	4.0	7.5	0.6
MECID1680	0.0068	10.3	7.0	4.0	7.5	0.6
MECID1820	0.0082	10.3	7.0	4.0	7.5	0.6
MECID2100	0.01	10.3	7.4	4.3	7.5	0.6
MECID2120	0.012	10.3	7.4	4.4	7.5	0.6
MECID2150	0.015	10.3	7.5	4.4	7.5	0.6
MECID2180	0.018	10.3	7.5	4.4	7.5	0.6
MECID2220	0.022	10.3	7.5	4.4	7.5	0.6
MECID2270	0.027	10.3	7.5	4.4	7.5	0.6
MECID2330	0.033	10.3	7.5	4.4	7.5	0.6
MECID2390	0.039	10.3	7.5	4.5	7.5	0.6
MECID2470	0.047	10.3	7.9	4.4	7.5	0.6
MECID2560	0.056	10.3	7.9	4.8	7.5	0.6
MECID2680	0.068	10.3	7.5	4.5	7.5	0.6
MECID2820	0.082	10.3	8.0	4.8	7.5	0.6
MECID3100	0.1	10.3	8.4	5.8	7.5	0.6
MECID3120	0.12	10.3	9.0	6.0	7.5	0.6
MECID3150	0.15	10.3	10.8	6.0	7.5	0.6
MECIF3180	0.18	12.5	10.0	5.0	10.0	0.6
MECIF3220	0.22	12.5	10.3	5.5	10.0	0.6
MECIF3270	0.27	12.5	11.0	6.0	10.0	0.6
MECIF3330	0.33	12.5	11.5	6.5	10.0	0.6
MECII3390	0.39	18.0	12.0	4.9	15.0	0.6
MECII3470	0.47	18.0	12.5	5.3	15.0	0.6
MECII3560	0.56	18.0	13.0	5.5	15.0	0.6
MECII3680	0.68	18.0	13.5	6.0	15.0	0.8
MECII3820	0.82	18.0	14.5	6.5	15.0	0.8
MECII4100	1	18.0	15.0	7.4	15.0	0.8
MECII4120	1.2	18.0	15.9	8.0	15.0	0.8
MECII4150	1.5	18.0	16.8	9.0	15.0	0.8
MECIN4180	1.8	25.0	15.5	7.5	22.5	0.8
MECIN4220	2.2	25.0	16.3	8.5	22.5	0.8
MECIN4270	2.7	25.0	17.1	9.4	22.5	0.8
MECIN4330	3.3	25.0	18.0	10.3	22.5	0.8
MECIN4390	3.9	25.0	20.5	11.0	22.5	0.8
MECIN4470	4.7	25.0	21.5	12.0	22.5	0.8
MECIR4560	5.6	30.0	21.0	11.8	27.5	0.8
MECIR4680	6.8	30.0	22.4	13.0	27.5	0.8
MECIR5100	10	30.0	25.8	15.9	27.5	0.8



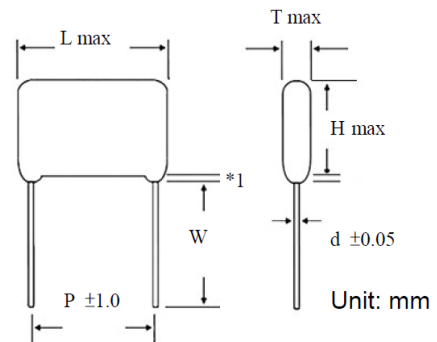
*1 : Max value 1.5mm

W : Please refer to the mechanical version in the product code system.

Specification of MEC Series

Dimension

Part Number	Cap(μF)	400Vdc/200Vac				
		L	H	T	P	d
MECMD1100	0.001	10.3	7.0	4.0	7.5	0.6
MECMD1120	0.0012	10.3	7.0	4.0	7.5	0.6
MECMD1150	0.0015	10.3	7.0	4.0	7.5	0.6
MECMD1180	0.0018	10.3	7.0	4.0	7.5	0.6
MECMD1220	0.0022	10.3	7.0	4.0	7.5	0.6
MECMD1270	0.0027	10.3	7.0	4.0	7.5	0.6
MECMD1330	0.0033	10.3	7.0	4.0	7.5	0.6
MECMD1390	0.0039	10.3	7.0	4.0	7.5	0.6
MECMD1470	0.0047	10.3	7.0	4.0	7.5	0.6
MECMD1560	0.0056	10.3	7.0	4.0	7.5	0.6
MECMD1680	0.0068	10.3	7.0	4.0	7.5	0.6
MECMD1820	0.0082	10.3	7.0	4.0	7.5	0.6
MECMD2100	0.01	10.3	7.6	4.4	7.5	0.6
MECMD2120	0.012	10.3	7.8	4.4	7.5	0.6
MECMD2150	0.015	10.3	7.8	4.4	7.5	0.6
MECMD2180	0.018	10.3	7.6	4.4	7.5	0.6
MECMD2220	0.022	10.3	7.9	4.5	7.5	0.6
MECMD2270	0.027	10.3	8.2	4.8	7.5	0.6
MECMD2330	0.033	10.3	9.0	5.5	7.5	0.6
MECMF2390	0.039	12.5	8.0	4.9	10.0	0.6
MECMF2470	0.047	12.5	8.3	5.2	10.0	0.6
MECMF2560	0.056	12.5	10.0	5.2	10.0	0.6
MECMF2680	0.068	12.5	10.5	5.5	10.0	0.6
MECMF2820	0.082	12.5	11.0	6.0	10.0	0.6
MECMF3100	0.1	12.5	12.0	6.0	10.0	0.6
MECMI3120	0.12	18.0	10.2	5.5	15.0	0.6
MECMI3150	0.15	18.0	12.0	5.5	15.0	0.6
MECMI3180	0.18	18.0	12.5	6.0	15.0	0.6
MECMI3220	0.22	18.0	13.0	5.9	15.0	0.6
MECMI3270	0.27	18.0	13.5	7.0	15.0	0.8
MECMI3330	0.33	18.0	14.0	7.7	15.0	0.8
MECMI3390	0.39	18.0	15.0	8.5	15.0	0.8
MECMI3470	0.47	18.0	16.5	8.5	15.0	0.8
MECMN3560	0.56	25.0	15.3	7.5	22.5	0.8
MECMN3680	0.68	25.0	16.0	8.2	22.5	0.8
MECMN3820	0.82	25.0	16.8	9.0	22.5	0.8
MECMN4100	1	25.0	17.7	10.0	22.5	0.8
MECMN4120	1.2	25.0	18.8	11.0	22.5	0.8
MECMR4150	1.5	30.0	19.5	10.0	27.5	0.8
MECMR4180	1.8	30.0	18.7	9.3	27.5	0.8
MECMR4220	2.2	30.0	19.8	10.4	27.5	0.8
MECMR4270	2.7	30.0	21.0	11.6	27.5	0.8
MECMR4330	3.3	30.0	22.3	13.0	27.5	0.8
MECMR4390	3.9	30.0	23.6	14.2	27.5	0.8
MECMR4470	4.7	30.0	25.2	15.8	27.5	0.8



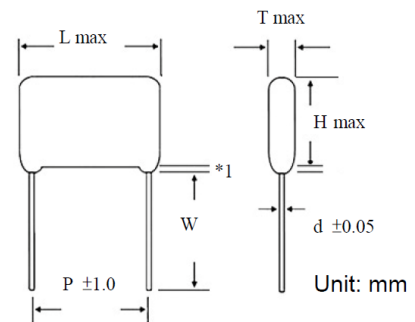
*1 : Max value 1.5mm

W : Please refer to the mechanical version in the product code system.

Specification of MEC Series

Dimension

Part Number	Cap(μF)	450Vdc/200Vac				
		L	H	T	P	d
MECXD1100	0.001	10.3	7.0	4.0	7.5	0.6
MECXD1120	0.0012	10.3	7.0	4.0	7.5	0.6
MECXD1150	0.0015	10.3	7.0	4.0	7.5	0.6
MECXD1180	0.0018	10.3	7.0	4.0	7.5	0.6
MECXD1220	0.0022	10.3	7.0	4.0	7.5	0.6
MECXD1270	0.0027	10.3	7.0	4.0	7.5	0.6
MECXD1330	0.0033	10.3	7.0	4.0	7.5	0.6
MECXD1390	0.0039	10.3	7.0	4.0	7.5	0.6
MECXD1470	0.0047	10.3	7.0	4.0	7.5	0.6
MECXD1560	0.0056	10.3	7.0	4.0	7.5	0.6
MECXD1680	0.0068	10.3	7.0	4.0	7.5	0.6
MECXD1820	0.0082	10.3	7.0	4.0	7.5	0.6
MECXD2100	0.01	10.3	7.6	4.4	7.5	0.6
MECXD2120	0.012	10.3	7.8	4.4	7.5	0.6
MECXD2150	0.015	10.3	7.8	4.4	7.5	0.6
MECXD2180	0.018	10.3	7.6	4.4	7.5	0.6
MECXD2220	0.022	10.3	7.9	4.5	7.5	0.6
MECXD2270	0.027	10.3	8.2	4.8	7.5	0.6
MECXD2330	0.033	10.3	9.0	5.5	7.5	0.6
MECXF2390	0.039	12.5	8.0	4.9	10.0	0.6
MECXF2470	0.047	12.5	8.3	5.2	10.0	0.6
MECXF2560	0.056	12.5	10.0	5.2	10.0	0.6
MECXF2680	0.068	12.5	10.5	5.5	10.0	0.6
MECXF2820	0.082	12.5	11.0	6.0	10.0	0.6
MECXF3100	0.1	12.5	12.0	6.0	10.0	0.6
MECXI3120	0.12	18.0	10.2	5.5	15.0	0.6
MECXI3150	0.15	18.0	12.0	5.5	15.0	0.6
MECXI3180	0.18	18.0	12.5	6.0	15.0	0.6
MECXI3220	0.22	18.0	13.0	5.9	15.0	0.8
MECXI3270	0.27	18.0	13.5	7.0	15.0	0.8
MECXI3330	0.33	18.0	14.0	7.7	15.0	0.8
MECXI3390	0.39	18.0	15.0	8.5	15.0	0.8
MECXI3470	0.47	18.0	16.5	8.5	15.0	0.8
MECXN3560	0.56	25.0	15.3	7.5	22.5	0.8
MECXN3680	0.68	25.0	16.0	8.2	22.5	0.8
MECXN3820	0.82	25.0	16.8	9.0	22.5	0.8
MECXN4100	1	25.0	17.7	10.0	22.5	0.8
MECXN4120	1.2	25.0	18.8	11.0	22.5	0.8
MECXR4150	1.5	30.0	19.5	10.0	27.5	0.8
MECXR4180	1.8	30.0	21.5	11.0	27.5	0.8
MECXR4220	2.2	30.0	23.0	12.5	27.5	0.8
MECXR4270	2.7	30.0	25.0	14.0	27.5	0.8
MECXR4330	3.3	30.0	26.5	15.5	27.5	0.8



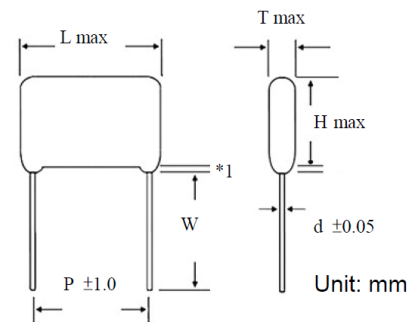
*1 : Max value 1.5mm

W : Please refer to the mechanical version in the product code system.

Specification of MEC Series

Dimension

Part Number	Cap(μF)	630Vdc/220Vac				
		L	H	T	P	d
MECPD1100	0.001	10.3	7.5	4.5	7.5	0.6
MECPD1120	0.0012	10.3	7.5	4.5	7.5	0.6
MECPD1150	0.0015	10.3	7.5	4.5	7.5	0.6
MECPD1180	0.0018	10.3	7.5	4.5	7.5	0.6
MECPD1220	0.0022	10.3	7.5	4.5	7.5	0.6
MECPD1270	0.0027	10.3	7.5	4.5	7.5	0.6
MECPD1330	0.0033	10.3	7.5	4.5	7.5	0.6
MECPD1390	0.0039	10.3	7.5	4.5	7.5	0.6
MECPD1470	0.0047	10.3	7.5	4.5	7.5	0.6
MECPD1560	0.0056	10.3	7.5	4.5	7.5	0.6
MECPD1680	0.0068	10.3	7.5	4.5	7.5	0.6
MECPD1820	0.0082	10.3	7.5	4.5	7.5	0.6
MECPF2100	0.01	12.5	7.5	4.0	10.0	0.6
MECPF2120	0.012	12.5	7.5	4.5	10.0	0.6
MECPF2150	0.015	12.5	8.2	5.0	10.0	0.6
MECPF2180	0.018	12.5	10.0	5.0	10.0	0.6
MECPF2220	0.022	12.5	10.5	5.3	10.0	0.6
MECPF2270	0.027	12.5	10.5	5.5	10.0	0.6
MECPF2330	0.033	12.5	11.0	6.0	10.0	0.6
MECPF2390	0.039	12.5	12.5	6.0	10.0	0.6
MECPF2470	0.047	12.5	13.0	6.5	10.0	0.6
MECPI2560	0.056	18.0	10.5	5.5	15.0	0.6
MECPI2680	0.068	18.0	11.0	6.0	15.0	0.6
MECPI2820	0.082	18.0	11.5	6.5	15.0	0.6
MECPI3100	0.1	18.0	13.0	6.5	15.0	0.6
MECPI3120	0.12	18.0	13.5	7.0	15.0	0.8
MECPI3150	0.15	18.0	14.5	8.0	15.0	0.8
MECPI3180	0.18	18.0	16.0	8.0	15.0	0.8
MECPI3220	0.22	18.0	16.5	9.0	15.0	0.8
MECPN3270	0.27	25.0	16.8	7.5	22.5	0.8
MECPN3330	0.33	25.0	17.5	8.0	22.5	0.8
MECPN3390	0.39	25.0	18.0	8.7	22.5	0.8
MECPN3470	0.47	25.0	19.0	9.5	22.5	0.8
MECPN3560	0.56	25.0	20.0	10.5	22.5	0.8
MECPN3680	0.68	25.0	21.5	11.5	22.5	0.8
MECPR3820	0.82	30.0	20.0	10.5	27.5	0.8
MECPR4100	1	30.0	21.0	11.5	27.5	0.8
MECPR4120	1.2	30.0	22.0	12.5	27.5	0.8
MECPR4150	1.5	30.0	24.0	14.3	27.5	0.8
MECPR4180	1.8	30.0	25.5	15.5	27.5	0.8
MECPR4220	2.2	30.0	27.3	17.5	27.5	0.8



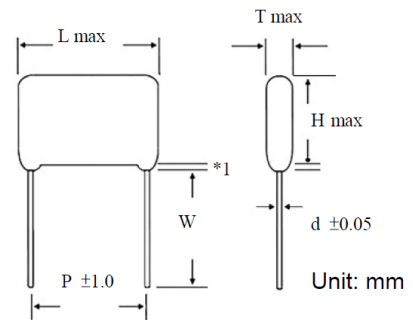
*1 : Max value 1.5mm

W : Please refer to the mechanical version in the product code system.

Specification of MEC Series

Dimension

Part Number	Cap(μF)	1000Vdc/250Vac				
		L	H	T	P	d
MECQG1100	0.001	15.5	11.0	6.0	12.5	0.6
MECQG1120	0.001	15.5	11.0	6.0	12.5	0.6
MECQG1150	0.002	15.5	11.0	6.0	12.5	0.6
MECQG1180	0.002	15.5	11.0	6.0	12.5	0.6
MECQG1220	0.002	15.5	11.5	6.0	12.5	0.6
MECQG1270	0.003	15.5	12.0	6.5	12.5	0.6
MECQG1330	0.003	15.5	11.5	6.0	12.5	0.6
MECQG1390	0.004	15.5	12.0	6.5	12.5	0.6
MECQG1470	0.005	15.5	12.5	7.0	12.5	0.6
MECQG1560	0.006	15.5	13.0	7.5	12.5	0.6
MECQG1680	0.007	15.5	11.0	6.0	12.5	0.6
MECQG1820	0.008	15.5	11.0	6.0	12.5	0.6
MECQG2100	0.01	15.5	11.0	6.0	12.5	0.6
MECQG2120	0.012	15.5	12.0	6.0	12.5	0.6
MECQG2150	0.015	15.5	12.5	7.0	12.5	0.6
MECQG2180	0.018	15.5	13.0	7.5	12.5	0.8
MECQG2220	0.022	15.5	15.5	7.5	12.5	0.8
MECQJ2270	0.027	21.0	13.0	6.0	17.5	0.8
MECQJ2330	0.033	21.0	14.0	6.5	17.5	0.8
MECQJ2390	0.039	21.0	14.5	7.0	17.5	0.8
MECQJ2470	0.047	21.0	15.5	7.5	17.5	0.8
MECQJ2560	0.056	21.0	17.0	7.5	17.5	0.8
MECQJ2680	0.068	21.0	18.0	8.5	17.5	0.8
MECQJ2820	0.082	21.0	18.5	9.0	17.5	0.8
MECQJ3100	0.1	21.0	20.0	10.0	17.5	0.8
MECQN3120	0.12	26.0	18.5	9.0	22.5	0.8
MECQN3150	0.15	26.0	20.0	10.0	22.5	0.8
MECQN3180	0.18	26.0	22.0	10.5	22.5	0.8
MECQN3220	0.22	26.0	23.0	12.0	22.5	0.8
MECQN3270	0.27	26.0	25.0	13.5	22.5	0.8
MECQR3330	0.33	31.0	24.0	13.0	27.5	0.8
MECQR3390	0.39	31.0	26.0	14.0	27.5	0.8
MECQR3470	0.47	31.0	27.5	15.5	27.5	0.8



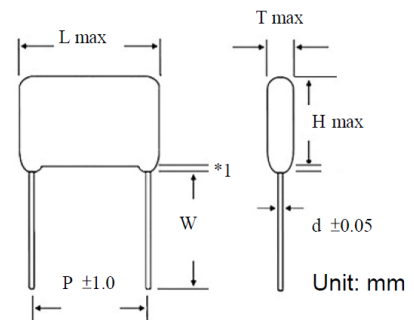
*1 : Max value 1.5mm

W : Please refer to the mechanical version in the product code system.

Specification of MEC Series

Dimension

Part Number	Cap(μF)	1250Vdc/400Vac				
		L	H	T	P	d
MECRG1100	0.001	15.5	11.0	6.0	12.5	0.6
MECRG1120	0.001	15.5	11.0	6.0	12.5	0.6
MECRG1150	0.002	15.5	11.0	6.0	12.5	0.6
MECRG1180	0.002	15.5	11.0	6.0	12.5	0.6
MECRG1220	0.002	15.5	11.5	6.0	12.5	0.6
MECRG1270	0.003	15.5	12.0	6.5	12.5	0.6
MECRG1330	0.003	15.5	11.5	6.0	12.5	0.6
MECRG1390	0.004	15.5	12.0	6.5	12.5	0.6
MECRG1470	0.005	15.5	12.5	7.0	12.5	0.6
MECRG1560	0.006	15.5	13.0	7.5	12.5	0.6
MECRG1680	0.007	15.5	15.0	7.5	12.5	0.6
MECRJ1820	0.008	21.0	12.0	5.0	17.5	0.6
MECRJ2100	0.01	21.0	12.5	5.0	17.5	0.6
MECRJ2120	0.012	21.0	13.0	5.5	17.5	0.6
MECRJ2150	0.015	21.0	13.5	6.0	17.5	0.6
MECRJ2180	0.018	21.0	14.5	6.5	17.5	0.8
MECRJ2220	0.022	21.0	15.0	7.0	17.5	0.8
MECRN2270	0.027	26.0	15.5	6.0	22.5	0.8
MECRN2330	0.033	26.0	16.0	6.5	22.5	0.8
MECRN2390	0.039	26.0	16.5	7.0	22.5	0.8
MECRN2470	0.047	26.0	17.0	8.0	22.5	0.8
MECRR2560	0.056	31.0	17.0	7.5	27.5	0.8
MECRR2680	0.068	31.0	17.5	8.0	27.5	0.8
MECRR2820	0.082	31.0	18.5	9.0	27.5	0.8
MECRR3100	0.1	31.0	19.5	10.0	27.5	0.8
MECRR3120	0.12	31.0	20.5	11.5	27.5	0.8
MECRR3150	0.15	31.0	23.0	12.0	27.5	0.8
MECRR3180	0.18	31.0	24.5	13.0	27.5	0.8
MECRR3220	0.22	31.0	26.5	14.5	27.5	0.8



*1 : Max value 1.5mm

W : Please refer to the mechanical version in the product code system.

Specification of MEC Series

Soldering suggestions

1. Max soldering temperature:

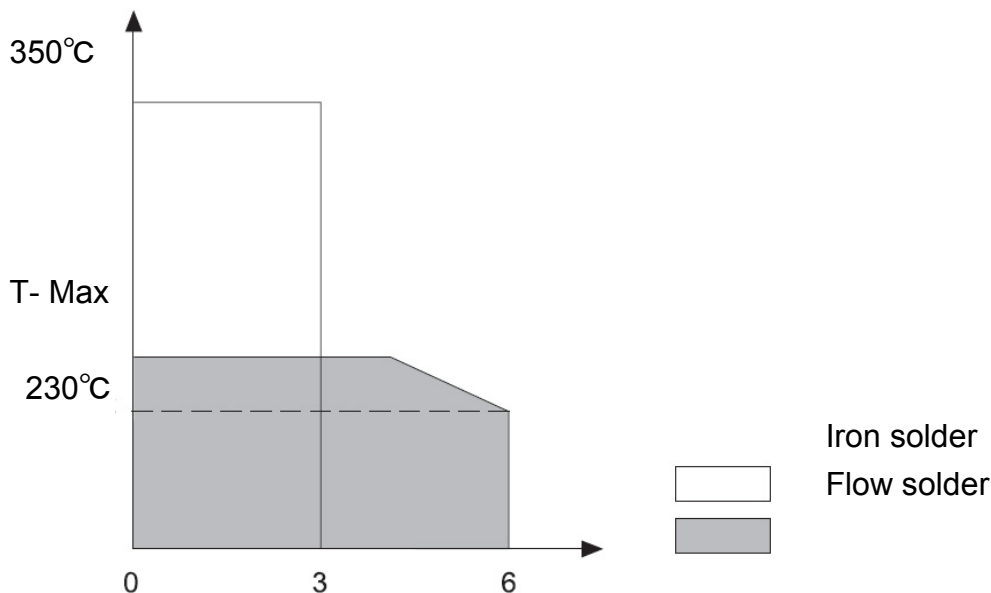
Max temperature (T-Max) for MKT (Pitch $\geq 7.5\text{mm}$): $265\pm 5^\circ\text{C}$ for 4 seconds.

Max temperature (T-Max) for MKT (Pitch 5mm): 260°C for 4 seconds.

Max temperature (T-Max) for MKP: 260°C for 4 seconds.

Temperature

Pre-Heating	Temperature	Time
	110°C	1 Min
	100°C	1 Min for KP & MKP $\leq P:7.5\text{mm}$



2. Additional condition:

If two time soldering are needed, please apply a recovery time until the temperature on the surface of capacitor is below 50°C .

Avoid applying the reflow soldering with both leaded parts and SMD parts.

Storage suggestions:

In order to keep the electrical characteristic of capacitor in line with the specification, please store the capacitors in the following condition:

Storage duration: ≤ 12 months from the date which showed on the label.

Temperature: -40°C to 80°C .

Humidity: $\leq 70\%$.



Specification of MEC Series

Marking:

The marking on each capacitor should contain Capacitance, Tolerance and Rated voltage.

Packing:

For Bulk type, small inner cardboard box / PVC bag with desiccants and label packed in one standard export carton.