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:

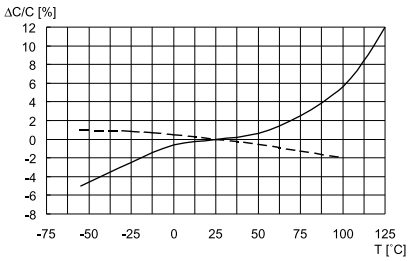
- Pulse applications.
- High current.
- AC Applications.
- SMPS & TV Set.
- Lighting.
- DC-LINK and filtering high Q.
- Timing with high stabililty.
- Industrial.

DIELECTRIC ABSORPTION(DA)
Typical Value 1KHz:

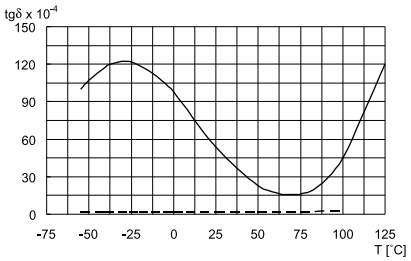
- Polyester: 0.5
- Polypropylene: 0.05

TYPICAL GRAPHS:

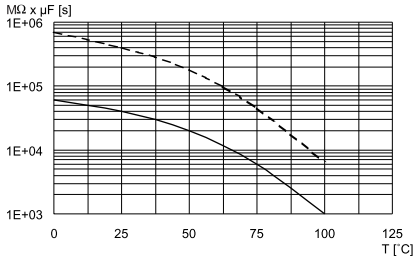
——— Polyester - - - - - - - - Polypropylene



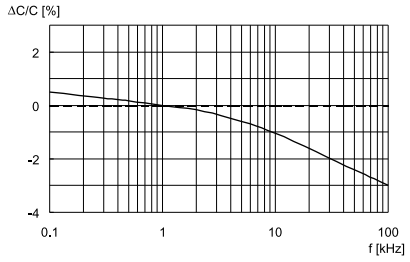
Capacitance change vs. temperature at 1kHz



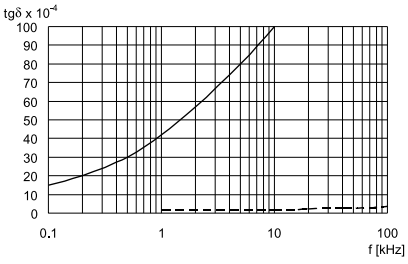
Dissipation factor vs. temperature at 1kHz



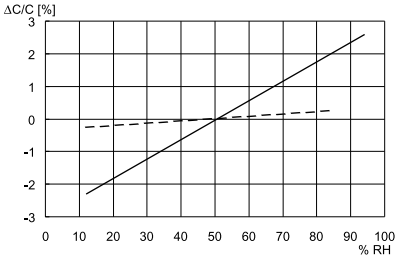
Time constant vs. temperature



Capacitance change vs. frequency (Room temperature)



Dissipation factor vs. frequency (Room temperature)



Capacitance change vs. relative humidity (RH)

Product

MEA series / Metalized Polyester Film Capacitors, Plastic box type

PRODUCT CODE SYSTEM

The part number is for MEA as follows:

MEA	□	□	□□□□	□	□	□ -	□
1	2	3	4 5 6 7	8	9	10	11

Digit 1 Series name.

Digit 2 D.C. rated voltage
D= 63V; E = 100V; I = 250V; M = 400V; P = 630V; Q = 1000V.

Digit 3 Pitch: (mm)
F = 10; I = 15; 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; L = 3.5±0.5mm;
T = type

Digit 9 Capacitance tolerance:
J = ±5%; K = ±10%; M = ±20%

Digit 10 Internal use for same pitch Special size : Internal +1,..Internal+2…etc,

Digit 11 Internal use for MEA is P.

GENERAL TECHNICAL DATA

Dielectric: Polyester film

Plates: Aluminum layer deposited by evaporation under vacuum.

Winding: Non-inductive type

Leads: Tinned wire

Protection: Plastic case, epoxy filled. Box material is solvent resistant and flame retardant according to UL94V-0.

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

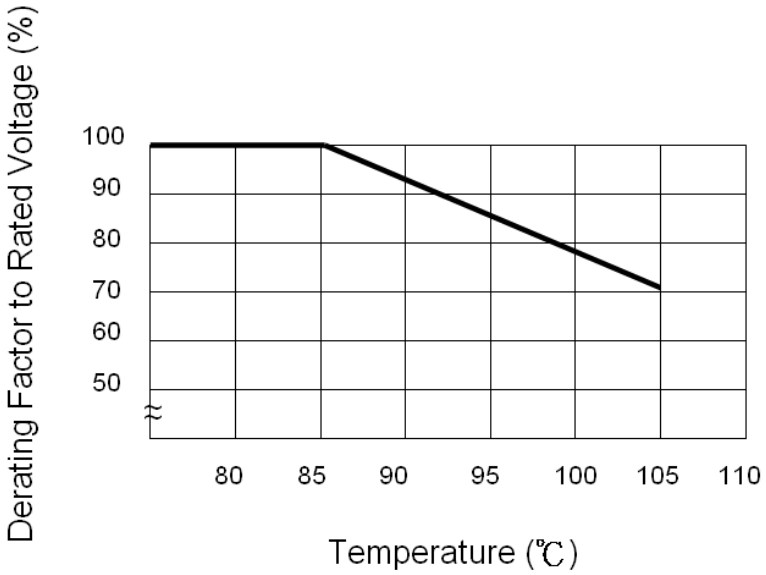
Related standard: IEC 60384-2

Specification of MEA Series

Electrical characteristics

Rated voltage (Vr)	63Vdc, 100Vdc, 250Vdc, 400Vdc, 630Vdc, 1000Vdc.
Capacitance Range	63Vdc. 0.47～22.0uf 100Vdc. 0.12～22.0uf 250Vdc.0.056～10.0uf 400Vdc. 0.012～4.7uf 630Vdc.0.0068～2.2uf 1000Vdc.0.01～0.68uf
Rated temperature	-40℃ ~ +85℃. (+105℃)
Capacitance tolerance Temperature: +25℃ Frequency: 1KHz.	±5%, ±10%, ±20%,
D.F value Temperature: +25℃	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℃. Duration: 1 minute.	≧ 15000MΩ for C≦0.33μF. ≧ 5000MΩ for C＞0.33μF.
Dielectric strength	1.6 x Vr applied for 2 sec at +25℃

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.



Specification of MEA Series

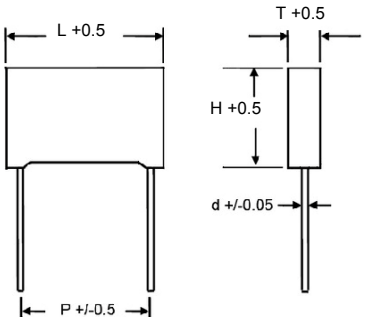
Test Item and performance

Test item	Test condition	Performance
Damp heat, steady state	Temperature: +40℃ Humidity: 93% Duration:	|△C/C| ≦ 5% D.F increase ≦ 0.008 at 1Khz I.R ≦ 50% of initial value
Dry heat test	Temperature: +85℃ Duration: 16Hrs Removal from chamber for test less 4hrs for temperature recovery	|△C/C| ≦ 5% C＞1μF, D.F change≦0.008 at 1Khz C≦1μF, D.F change≦0.015 at 10Khz I.R ≦ 50% of initial value
Cold test	Temperature: -40℃ Duration: 2Hrs Removal from chamber for test less 4hrs for temperature recovery	|△C/C| ≦ 5% C＞1μF, D.F change≦0.008 at 1Khz C≦1μF, D.F change≦0.015 at 10Khz I.R ≦ 50% of initial value
Solder ability	Soldering temperature: 230±5℃. 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℃. Duration: 10 ± 1 seconds	|△C/C| ≦ 3% C＞1μF, D.F change≦0.008 at 1Khz C≦1μF, D.F change≦0.015 at 10Khz I.R ≦ 50% of initial value
Load life test (Endurance)	Temperature: +85℃ Test voltage: 1.10x Vr (500Vdc) Duration: 500Hrs Removal from chamber for test less 4hrs for temperature recovery	|△C/C| ≦ 5% C＞1μF, D.F change≦0.008 at 1Khz C≦1μF, D.F change≦0.015 at 10Khz I.R ≦ 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℃ ~ +85℃ Humidity≦70% for yearly average Duration≦12 months	|△C/C| ≦ 3%

Specification of MEA Series

Dimension

Part Number	Cap(uF)	63Vdc/40Vac					
		L	H	T	P	d	dv/dt
MEADF3470___	0.47	13.0	11.0	5.0	10.0	0.6	4
MEADF3560___	0.56	13.0	11.0	5.0	10.0	0.6	4
MEADF3680___	0.68	13.0	12.0	6.0	10.0	0.6	4
MEADF3820___	0.82	13.0	12.0	6.0	10.0	0.6	4
MEADF4100___	1	13.0	12.0	6.0	10.0	0.6	4
MEADI3820___	0.82	18.0	11.0	5.0	15.0	0.8	2.5
MEADI4100___	1	18.0	11.0	5.0	15.0	0.8	2.5
MEADI4120___	1.2	18.0	12.0	6.0	15.0	0.8	2.5
MEADI4150___	1.5	18.0	12.0	6.0	15.0	0.8	2.5
MEADI4180___	1.8	18.0	13.5	7.5	15.0	0.8	2.5
MEADI4220___	2.2	18.0	13.5	7.5	15.0	0.8	2.5
MEADN4270___	2.7	26.5	16.5	7.0	22.5	0.8	1.5
MEADN4330___	3.3	26.5	16.5	7.0	22.5	0.8	1.5
MEADN4390___	3.9	26.5	16.5	7.0	22.5	0.8	1.5
MEADN4470___	4.7	26.5	17.0	8.5	22.5	0.8	1.5
MEADN4560___	5.6	26.5	17.0	8.5	22.5	0.8	1.5
MEADN4680___	6.8	26.5	19.0	10.0	22.5	0.8	1.5
MEADR4820___	8.2	32.0	19.0	10.0	27.5	0.8	1
MEADR5100___	10	32.0	20.0	11.0	27.5	0.8	1
MEADR5120___	12	32.0	22.0	13.0	27.5	0.8	1
MEADR5150___	15	32.0	22.0	13.0	27.5	0.8	1
MEADR5180___	18	32.0	25.0	14.0	27.5	0.8	1
MEADR5220___	22	32.0	30.0	15.0	27.5	0.8	1

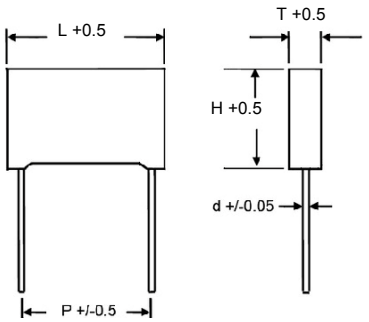


Part Number	Cap(uF)	100Vdc/63Vac					
		L	H	T	P	d	dv/dt
MEAEF3120___	0.12	13.0	9.0	4.0	10.0	0.6	6
MEAEF3150___	0.15	13.0	9.0	4.0	10.0	0.6	6
MEAEF3180___	0.18	13.0	9.0	4.0	10.0	0.6	6
MEAEF3220___	0.22	13.0	11.0	5.0	10.0	0.6	6
MEAEF3270___	0.27	13.0	11.0	5.0	10.0	0.6	6
MEAEF3330__P1	0.33	13.0	9.0	4.0	10.0	0.6	6
MEAEF3330___	0.33	13.0	12.0	6.0	10.0	0.6	6
MEAEF3390__P1	0.39	13.0	9.0	4.0	10.0	0.6	6
MEAEF3390___	0.39	13.0	12.0	6.0	10.0	0.6	6
MEAEF3470__P1	0.47	13.0	11.0	5.0	10.0	0.6	6
MEAEF3470___	0.47	13.0	12.0	6.0	10.0	0.6	6
MEAEF3560___	0.56	13.0	11.0	5.0	10.0	0.6	6
MEAEF3680___	0.68	13.0	12.0	6.0	10.0	0.6	6
MEAEF3820___	0.82	13.0	12.0	6.0	10.0	0.6	6

Specification of MEA Series

Dimension

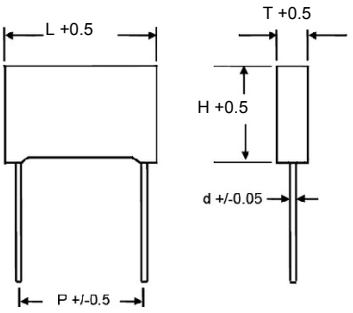
Part Number	Cap(uF)	100Vdc/63Vac					
		L	H	T	P	d	dv/dt
MEAEI3330___	0.33	18.0	11.0	5.0	15.0	0.8	3
MEAEI3390___	0.39	18.0	11.0	5.0	15.0	0.8	3
MEAEI3470___	0.47	18.0	11.0	5.0	15.0	0.8	3
MEAEI3560___	0.56	18.0	12.0	6.0	15.0	0.8	3
MEAEI3680___	0.68	18.0	12.0	6.0	15.0	0.8	3
MEAEI3820___	0.82	18.0	13.5	7.5	15.0	0.8	3
MEAEI4100__P1	1	18.0	11.0	5.0	15.0	0.8	3
MEAEI4100___	1	18.0	13.5	7.5	15.0	0.8	3
MEAEI4120__P1	1.2	18.0	12.0	6.0	15.0	0.8	3
MEAEI4120___	1.2	18.0	13.5	7.5	15.0	0.8	3
MEAEI4150___	1.5	18.0	12.0	6.0	15.0	0.8	3
MEAEI4180___	1.8	18.0	13.5	7.5	15.0	0.8	3
MEAEI4220___	2.2	18.0	13.5	7.5	15.0	0.8	3
MEAEI4270___	2.7	18.0	14.5	8.5	15.0	0.8	3
MEAEI4330___	3.3	18.0	16.0	10.0	15.0	0.8	3
MEAEI4390___	3.9	18.0	16.0	10.0	15.0	0.8	3
MEAEN4120___	1.2	26.5	16.5	7.0	22.5	0.8	2
MEAEN4150___	1.5	26.5	16.5	7.0	22.5	0.8	2
MEAEN4180___	1.8	26.5	16.5	7.0	22.5	0.8	2
MEAEN4220___	2.2	26.5	17.0	8.5	22.5	0.8	2
MEAEN4270___	2.7	26.5	19.0	10.0	22.5	0.8	2
MEAEN4330__P1	3.3	26.5	16.5	7.0	22.5	0.8	2
MEAEN4330___	3.3	26.5	19.0	10.0	22.5	0.8	2
MEAEN4390___	3.9	26.5	17.0	8.5	22.5	0.8	2
MEAEN4470___	4.7	26.5	17.0	8.5	22.5	0.8	2
MEAEN4560___	5.6	26.5	19.0	10.0	22.5	0.8	2
MEAEN4680___	6.8	26.5	19.0	10.0	22.5	0.8	2
MEAER4390___	3.9	32.0	20.0	11.0	27.5	0.8	1.5
MEAER4470___	4.7	32.0	20.0	11.0	27.5	0.8	1.5
MEAER4560___	5.6	32.0	22.0	13.0	27.5	0.8	1.5
MEAER4680___	6.8	32.0	22.0	13.0	27.5	0.8	1.5
MEAER4820__P1	8.2	32.0	19.0	10.0	27.5	0.8	1.5
MEAER4820___	8.2	32.0	25.0	14.0	27.5	0.8	1.5
MEAER5100__P1	10	32.0	20.0	11.0	27.5	0.8	1.5
MEAER5100___	10	32.0	30.0	15.0	27.5	0.8	1.5
MEAER5120___	12	32.0	20.0	11.0	27.5	0.8	1.5
MEAER5150___	15	32.0	22.0	13.0	27.5	0.8	1.5
MEAER5180___	18	32.0	25.0	14.0	27.5	0.8	1.5
MEAER5220___	22	32.0	30.0	15.0	27.5	0.8	1.5



Specification of MEA Series

Dimension

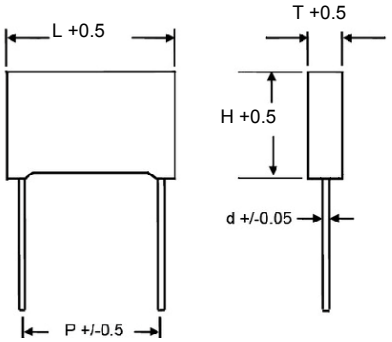
Part Number	Cap(uF)	250Vdc/160vac					
		L	H	T	P	d	dv/dt
MEAIF2560___	0.056	13.0	9.0	4.0	10.0	0.6	16
MEAIF2680___	0.068	13.0	9.0	4.0	10.0	0.6	16
MEAIF2680___	0.068	13.0	11.0	5.0	10.0	0.6	16
MEAIF2820___	0.082	13.0	9.0	4.0	10.0	0.6	16
MEAIF3100___	0.1	13.0	9.0	4.0	10.0	0.6	16
MEAIF3100___	0.1	13.0	11.0	5.0	10.0	0.6	16
MEAIF3120___	0.12	13.0	11.0	5.0	10.0	0.6	16
MEAIF3120___	0.15	13.0	11.0	5.0	10.0	0.6	16
MEAIF3150___	0.15	13.0	12.0	6.0	10.0	0.6	16
MEAIF3150___	0.18	13.0	11.0	5.0	10.0	0.6	16
MEAIF3180___	0.18	13.0	12.0	6.0	10.0	0.6	16
MEAIF3180___	0.22	13.0	11.0	5.0	10.0	0.6	16
MEAIF3270___	0.27	13.0	12.0	6.0	10.0	0.6	16
MEAIF3330___	0.33	13.0	12.0	6.0	10.0	0.6	16
MEAII3100___	0.1	18.0	11.0	5.0	15.0	0.8	12
MEAII3120___	0.12	18.0	11.0	5.0	15.0	0.8	12
MEAII3150___	0.15	18.0	11.0	5.0	15.0	0.8	12
MEAII3180___	0.18	18.0	11.0	5.0	15.0	0.8	12
MEAII3220___	0.22	18.0	11.0	5.0	15.0	0.8	12
MEAII3270___	0.27	18.0	12.0	6.0	15.0	0.8	12
MEAII3330___	0.33	18.0	11.0	5.0	15.0	0.8	12
MEAII3330___	0.33	18.0	12.0	6.0	15.0	0.8	12
MEAII3390___	0.39	18.0	11.0	5.0	15.0	0.8	12
MEAII3390___	0.39	18.0	13.5	7.5	15.0	0.8	12
MEAII3470___	0.47	18.0	12.0	6.0	15.0	0.8	12
MEAII3470___	0.47	18.0	13.5	7.5	15.0	0.8	12
MEAII3560___	0.56	18.0	12.0	6.0	15.0	0.8	12
MEAII3560___	0.56	18.0	14.5	8.5	15.0	0.8	12
MEAII3680___	0.68	18.0	13.5	7.5	15.0	0.8	12
MEAII3680___	0.68	18.0	14.5	8.5	15.0	0.8	12
MEAII3820___	0.82	18.0	13.5	7.5	15.0	0.8	12
MEAII4100___	1	18.0	14.5	8.5	15.0	0.8	12
MEAII4120___	1.2	18.0	14.5	8.5	15.0	0.8	12
MEAII4150___	1.5	18.0	16.0	10.0	15.0	0.8	12
MEAIN3470___	0.47	26.5	15.0	6.0	22.5	0.8	8
MEAIN3560___	0.56	26.5	15.0	6.0	22.5	0.8	8
MEAIN3680___	0.68	26.5	16.5	7.0	22.5	0.8	8
MEAIN3820___	0.82	26.5	17.0	8.5	22.5	0.8	8
MEAIN4100___	1	26.5	17.0	8.5	22.5	0.8	8
MEAIN4120___	1.2	26.5	17.0	8.5	22.5	0.8	8
MEAIN4150___	1.5	26.5	16.5	7.0	22.5	0.8	8
MEAIN4150___	1.5	26.5	19.0	10.0	22.5	0.8	8
MEAIN4180___	1.8	26.5	17.0	8.5	22.5	0.8	8
MEAIN4180___	1.8	26.5	19.0	10.0	22.5	0.8	8
MEAIN4220___	2.2	26.5	19.0	10.0	22.5	0.8	8
MEAIN4270___	2.7	26.5	19.0	10.0	22.5	0.8	8



Specification of MEA Series

Dimension

Part Number	Cap(uF)	250Vdc/160vac					
		L	H	T	P	d	dv/dt
MEAIR4180___	1.8	32.0	20.0	11.0	27.5	0.8	5
MEAIR4220___	2.2	32.0	20.0	11.0	27.5	0.8	5
MEAIR4270___	2.7	32.0	20.0	11.0	27.5	0.8	5
MEAIR4330___	3.3	32.0	20.0	11.0	27.5	0.8	5
MEAIR4330___	3.3	32.0	22.0	13.0	27.5	0.8	5
MEAIR4390___	3.9	32.0	20.0	11.0	27.5	0.8	5
MEAIR4390___	3.9	32.0	25.0	14.0	27.5	0.8	5
MEAIR4470___	4.7	32.0	22.0	13.0	27.5	0.8	5
MEAIR4470___	4.7	32.0	30.0	15.0	27.5	0.8	5
MEAIR4560___	5.6	32.0	22.0	13.0	27.5	0.8	5
MEAIR4560___	5.6	32.0	30.0	15.0	27.5	0.8	5
MEAIR4680___	6.8	32.0	25.0	14.0	27.5	0.8	5
MEAIR4680___	6.8	32.0	33.0	18.0	27.5	0.8	5
MEAIR4820___	8.2	32.0	30.0	15.0	27.5	0.8	5
MEAIR5100___	10	32.0	30.0	15.0	27.5	0.8	5

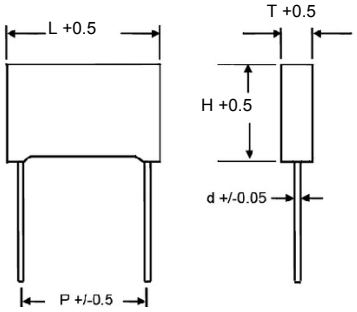


Part Number	Cap(uF)	400Vdc/200Vac					
		L	H	T	P	d	dv/dt
MEAMF2120___	0.012	13.0	9.0	4.0	10.0	0.6	30
MEAMF2150___	0.015	13.0	9.0	4.0	10.0	0.6	30
MEAMF2180___	0.018	13.0	9.0	4.0	10.0	0.6	30
MEAMF2220___	0.022	13.0	9.0	4.0	10.0	0.6	30
MEAMF2270___	0.027	13.0	9.0	4.0	10.0	0.6	30
MEAMF2330___	0.033	13.0	11.0	5.0	10.0	0.6	30
MEAMF2390__P1	0.039	13.0	9.0	4.0	10.0	0.6	30
MEAMF2390___	0.039	13.0	11.0	5.0	10.0	0.6	30
MEAMF2470__P1	0.047	13.0	9.0	4.0	10.0	0.6	30
MEAMF2470___	0.047	13.0	12.0	6.0	10.0	0.6	30
MEAMF2560___	0.056	13.0	11.0	5.0	10.0	0.6	30
MEAMF2680___	0.068	13.0	11.0	5.0	10.0	0.6	30
MEAMF2820___	0.082	13.0	12.0	6.0	10.0	0.6	30
MEAMF3100___	0.1	13.0	12.0	6.0	10.0	0.6	30
MEAMF3120___	0.12	13.0	12.0	6.0	10.0	0.6	30
MEAMF3150___	0.15	13.0	12.0	6.0	10.0	0.6	30
MEAMI2470___	0.047	18.0	11.0	5.0	15.0	0.8	20
MEAMI2560___	0.056	18.0	11.0	5.0	15.0	0.8	20
MEAMI2680__P1	0.068	18.0	11.0	5.0	15.0	0.8	20
MEAMI2680___	0.068	18.0	11.0	5.0	15.0	0.8	20
MEAMI3100___	0.1	18.0	12.0	6.0	15.0	0.8	20
MEAMI3120__P1	0.12	18.0	11.0	5.0	15.0	0.8	20
MEAMI3120___	0.12	18.0	12.0	6.0	15.0	0.8	20
MEAMI3150__P1	0.15	18.0	11.0	5.0	15.0	0.8	20
MEAMI3150___	0.15	18.0	13.5	7.5	15.0	0.8	20
MEAMI3180__P1	0.18	18.0	12.0	6.0	15.0	0.8	20
MEAMI3180___	0.18	18.0	13.5	7.5	15.0	0.8	20

Specification of MEA Series

Dimension

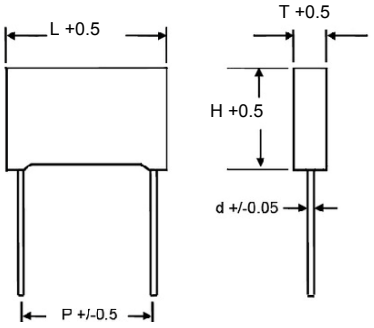
Part Number	Cap(uF)	400Vdc/200Vac					
		L	H	T	P	d	dv/dt
MEAMI3220__P1	0.22	18.0	12.0	6.0	15.0	0.8	20
MEAMI3220___	0.22	18.0	14.5	8.5	15.0	0.8	20
MEAMI3270__P1	0.27	18.0	13.5	7.5	15.0	0.8	20
MEAMI3270___	0.27	18.0	14.5	8.5	15.0	0.8	20
MEAMI3330__P1	0.33	18.0	13.5	7.5	15.0	0.8	20
MEAMI3330___	0.33	18.0	16.0	10.0	15.0	0.8	20
MEAMI3390___	0.39	18.0	14.5	8.5	15.0	0.8	20
MEAMI3470___	0.47	18.0	14.5	8.5	15.0	0.8	20
MEAMI3560___	0.56	18.0	16.0	10.0	15.0	0.8	20
MEAMI3680___	0.68	18.0	16.0	10.0	15.0	0.8	20
MEAMN3150___	0.15	26.5	15.0	6.0	22.5	0.8	10
MEAMN3180___	0.18	26.5	15.0	6.0	22.5	0.8	10
MEAMN3220___	0.22	26.5	15.0	6.0	22.5	0.8	10
MEAMN3270___	0.27	26.5	16.5	7.0	22.5	0.8	10
MEAMN3330___	0.33	26.5	16.5	7.0	22.5	0.8	10
MEAMN3390___	0.39	26.5	17.0	8.5	22.5	0.8	10
MEAMN3470___	0.47	26.5	17.0	8.5	22.5	0.8	10
MEAMN3560__P1	0.56	26.5	16.5	7.0	22.5	0.8	10
MEAMN3560___	0.56	26.5	19.0	10.0	22.5	0.8	10
MEAMN3680__P1	0.68	26.5	17.0	8.5	22.5	0.8	10
MEAMN3680___	0.68	26.5	19.0	10.0	22.5	0.8	10
MEAMN3820___	0.82	26.5	17.0	8.5	22.5	0.8	10
MEAMN4100___	1	26.5	19.0	10.0	22.5	0.8	10
MEAMN4120___	1.2	26.5	19.0	10.0	22.5	0.8	10
MEAMR3560___	0.56	32.0	20.0	11.0	27.5	0.8	8.5
MEAMR3680___	0.68	32.0	20.0	11.0	27.5	0.8	8.5
MEAMR3820___	0.82	32.0	20.0	11.0	27.5	0.8	8.5
MEAMR4100___	1	32.0	20.0	11.0	27.5	0.8	8.5
MEAMR4120__P1	1.2	32.0	20.0	11.0	27.5	0.8	8.5
MEAMR4120___	1.2	32.0	22.0	13.0	27.5	0.8	8.5
MEAMR4150__P1	1.5	32.0	20.0	11.0	27.5	0.8	8.5
MEAMR4150___	1.5	32.0	25.0	14.0	27.5	0.8	8.5
MEAMR4180__P1	1.8	32.0	20.0	11.0	27.5	0.8	8.5
MEAMR4180___	1.8	32.0	30.0	15.0	27.5	0.8	8.5
MEAMR4220__P1	2.2	32.0	22.0	13.0	27.5	0.8	8.5
MEAMR4220___	2.2	32.0	30.0	15.0	27.5	0.8	8.5
MEAMR4270___	2.7	32.0	25.0	14.0	27.5	0.8	8.5
MEAMR4330___	3.3	32.0	30.0	15.0	27.5	0.8	8.5
MEAMR4390___	3.9	32.0	30.0	15.0	27.5	0.8	8.5
MEAMR4470___	4.7	32.0	33.0	18.0	27.5	0.8	8.5
Part Number	Cap(uF)	630Vdc/220Vac					
		L	H	T	P	d	dv/dt
MEAPF1680___	0.0068	13.0	9.0	4.0	10.0	0.6	45
MEAPF1820___	0.0082	13.0	9.0	4.0	10.0	0.6	45
MEAPF2100___	0.01	13.0	9.0	4.0	10.0	0.6	45
MEAPF2120__P1	0.012	13.0	9.0	4.0	10.0	0.6	45
MEAPF2120___	0.012	13.0	11.0	5.0	10.0	0.6	45



Specification of MEA Series

Dimension

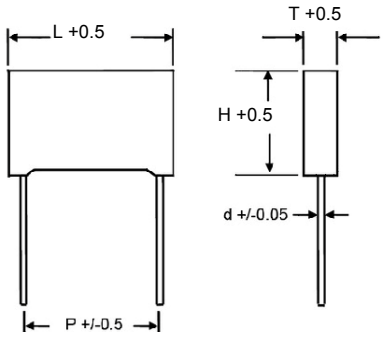
Part Number	Cap(uF)	630Vdc/220Vac					
		L	H	T	P	d	dv/dt
MEAPF2150__P1	0.015	13.0	9.0	4.0	10.0	0.6	45
MEAPF2150___	0.015	13.0	11.0	5.0	10.0	0.6	45
MEAPF2180__P1	0.018	13.0	9.0	4.0	10.0	0.6	45
MEAPF2180___	0.018	13.0	11.0	5.0	10.0	0.6	45
MEAPF2220__P1	0.022	13.0	11.0	5.0	10.0	0.6	45
MEAPF2220___	0.022	13.0	12.0	6.0	10.0	0.6	45
MEAPF2270___	0.027	13.0	11.0	5.0	10.0	0.6	45
MEAPF2330___	0.033	13.0	12.0	6.0	10.0	0.6	45
MEAPF2390___	0.039	13.0	12.0	6.0	10.0	0.6	45
MEAPF2470___	0.047	13.0	12.0	6.0	10.0	0.6	45
MEAPI2270___	0.027	18.0	11.0	5.0	15.0	0.8	20
MEAPI2330___	0.033	18.0	11.0	5.0	15.0	0.8	20
MEAPI2390___	0.039	18.0	12.0	6.0	15.0	0.8	20
MEAPI2560__P1	0.056	18.0	11.0	5.0	15.0	0.8	20
MEAPI2560___	0.056	18.0	12.0	6.0	15.0	0.8	20
MEAPI2680__P1	0.068	18.0	11.0	5.0	15.0	0.8	20
MEAPI2680___	0.068	18.0	13.5	7.5	15.0	0.8	20
MEAPI2820__P1	0.082	18.0	12.0	6.0	15.0	0.8	20
MEAPI2820___	0.082	18.0	13.5	7.5	15.0	0.8	20
MEAPI3100___	0.1	18.0	12.0	6.0	15.0	0.8	20
MEAPI3120___	0.12	18.0	13.5	7.5	15.0	0.8	20
MEAPI3150___	0.15	18.0	13.5	7.5	15.0	0.8	20
MEAPI3180___	0.18	18.0	14.5	8.5	15.0	0.8	20
MEAPI3220___	0.22	18.0	16.0	10.0	15.0	0.8	20
MEAPN2680___	0.068	26.5	15.0	6.0	22.5	0.8	12
MEAPN2820___	0.082	26.5	15.0	6.0	22.5	0.8	12
MEAPN2820___	0.1	26.5	15.0	6.0	22.5	0.8	12
MEAPN3100___	0.12	26.5	16.5	7.0	22.5	0.8	12
MEAPN3150___	0.15	26.5	16.5	7.0	22.5	0.8	12
MEAPN3180___	0.18	26.5	17.0	8.5	22.5	0.8	12
MEAPN3220___	0.22	26.5	17.0	8.5	22.5	0.8	12
MEAPN3270__P1	0.27	26.5	16.5	7.0	22.5	0.8	12
MEAPN3270___	0.27	26.5	19.0	10.0	22.5	0.8	12
MEAPN3330__P1	0.33	26.5	17.0	8.5	22.5	0.8	12
MEAPN3330___	0.33	26.5	19.0	10.0	22.5	0.8	12
MEAPN3390___	0.39	26.5	19.0	10.0	22.5	0.8	12
MEAPN3470___	0.47	26.5	19.0	10.0	22.5	0.8	12
MEAPN3560___	0.56	26.5	20.0	11.0	22.5	0.8	12
MEAPR3270___	0.27	32.0	20.0	11.0	27.5	0.8	10
MEAPR3330___	0.33	32.0	20.0	11.0	27.5	0.8	10
MEAPR3390___	0.39	32.0	20.0	11.0	27.5	0.8	10
MEAPR3470___	0.47	32.0	22.0	13.0	27.5	0.8	10
MEAPR3560___	0.56	32.0	22.0	13.0	27.5	0.8	10
MEAPR3680__P1	0.68	32.0	20.0	11.0	27.5	0.8	10
MEAPR3680___	0.68	32.0	25.0	14.0	27.5	0.8	10
MEAPR3820__P1	0.82	32.0	20.0	11.0	27.5	0.8	10
MEAPR3820___	0.82	32.0	30.0	15.0	27.5	0.8	10
MEAPR4100__P1	1	32.0	22.0	13.0	27.5	0.8	10
MEAPR4100___	1	32.0	30.0	15.0	27.5	0.8	10



Specification of MEA Series

Dimension

Part Number	Cap(uF)	630Vdc/220Vac					
		L	H	T	P	d	dv/dt
MEAPR4120___	1.2	32.0	25.0	14.0	27.5	0.8	10
MEAPR4150___	1.5	32.0	30.0	15.0	27.5	0.8	10
MEAPR4180___	1.8	32.0	30.0	15.0	27.5	0.8	10
MEAPR4220___	2.2	32.0	33.0	18.0	27.5	0.8	10
Part Number	Cap(uF)	1000Vdc/250Vac					
		L	H	T	P	d	dv/dt
MEAQF1100___	0.001	13.0	9.0	4.0	10.0	0.6	52
MEAQF1150___	0.0015	13.0	9.0	4.0	10.0	0.6	52
MEAQF1180___	0.0018	13.0	9.0	4.0	10.0	0.6	52
MEAQF1220___	0.0022	13.0	9.0	4.0	10.0	0.6	52
MEAQF1270___	0.0027	13.0	9.0	4.0	10.0	0.6	52
MEAQF1330___	0.0033	13.0	9.0	4.0	10.0	0.6	52
MEAQF1390___	0.0039	13.0	11.0	5.0	10.0	0.6	52
MEAQF1470___	0.0047	13.0	11.0	5.0	10.0	0.6	52
MEAQF1560___	0.0056	13.0	11.0	5.0	10.0	0.6	52
MEAQF1680___	0.0068	13.0	11.0	5.0	10.0	0.6	52
MEAQF1820___	0.0082	13.0	11.0	5.0	10.0	0.6	52
MEAQF2100___	0.01	13.0	11.0	5.0	10.0	0.6	52
MEAQF2120___	0.012	13.0	12.0	6.0	10.0	0.6	52
MEAQF2150___	0.015	13.0	12.0	6.0	10.0	0.6	52
MEAQI2100___	0.01	18.0	11.0	5.0	15.0	0.8	26
MEAQI2120___	0.012	18.0	11.0	5.0	15.0	0.8	26
MEAQI2150___	0.015	18.0	11.0	5.0	15.0	0.8	26
MEAQI2180___	0.018	18.0	12.0	6.0	15.0	0.8	26
MEAQI2220___	0.022	18.0	12.0	6.0	15.0	0.8	26
MEAQI2270___	0.027	18.0	13.5	7.5	15.0	0.8	26
MEAQI2330___	0.033	18.0	13.5	7.5	15.0	0.8	26
MEAQI2390___	0.039	18.0	14.5	8.5	15.0	0.8	26
MEAQI2470___	0.047	18.0	14.5	8.5	15.0	0.8	26
MEAQN2330___	0.033	26.5	15.0	6.0	22.5	0.8	13
MEAQN2390___	0.039	26.5	15.0	6.0	22.5	0.8	13
MEAQN1470___	0.047	26.5	16.5	7.0	22.5	0.8	13
MEAQN2560___	0.056	26.5	16.5	7.0	22.5	0.8	13
MEAQN2680___	0.068	26.5	16.5	7.0	22.5	0.8	13
MEAQN2820___	0.082	26.5	17.0	8.5	22.5	0.8	13
MEAQN3100___	0.1	26.5	17.0	8.5	22.5	0.8	13
MEAQN3120___	0.12	26.5	19.0	10.0	22.5	0.8	13
MEAQN3150___	0.15	26.5	19.0	10.0	22.5	0.8	13
MEAQR3120___	0.12	32.0	20.0	11.0	27.5	0.8	10
MEAQR3150___	0.15	32.0	20.0	11.0	27.5	0.8	10
MEAQR3180___	0.18	32.0	20.0	11.0	27.5	0.8	10
MEAQR3220___	0.22	32.0	20.0	11.0	27.5	0.8	10
MEAQR3270___	0.27	32.0	22.0	13.0	27.5	0.8	10
MEAQR3330___	0.33	32.0	22.0	13.0	27.5	0.8	10
MEAQR3390___	0.39	32.0	25.0	14.0	27.5	0.8	10
MEAQR3470___	0.47	32.0	30.0	15.0	27.5	0.8	10
MEAQR3560___	0.56	32.0	30.0	15.0	27.5	0.8	10
MEAQR3680___	0.68	32.0	33.0	18.0	27.5	0.8	10



Specification of MEA Series

Soldering suggestions

1. Max soldering temperature:

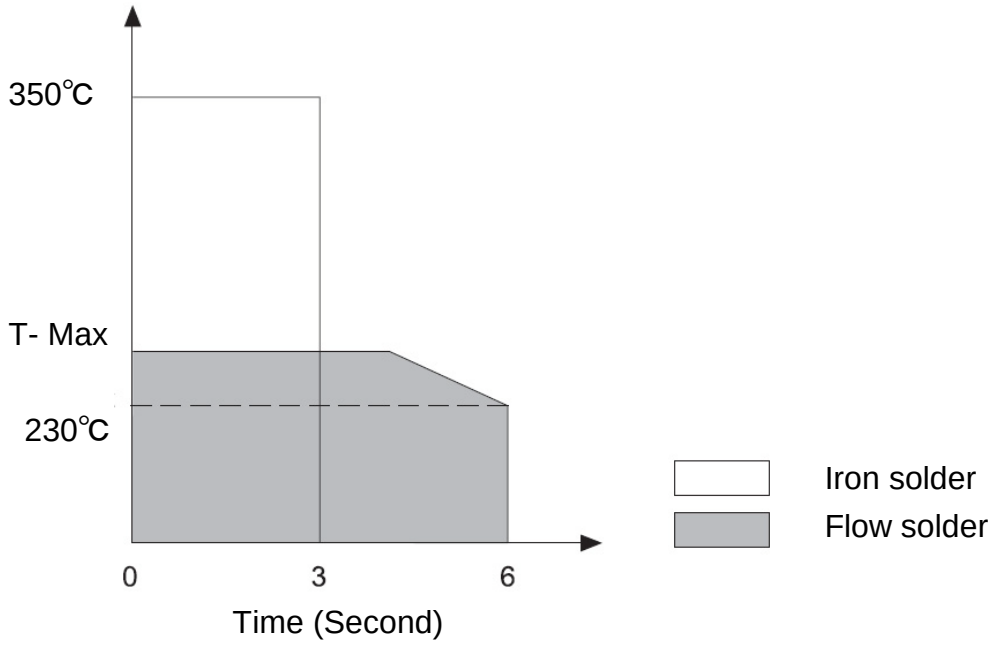
Max temperature (T-Max) for MKT (Pitch ≧ 7.5mm): 265±5℃ for 4 seconds.

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

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

Temperature

Pre-Heating	Temperature	Time
	110℃	1 Min
	100℃	1 Min for KP & MKP≦P:7.5mm



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℃.

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℃ to 80℃.

Humidity: ≦ 70%.

Specification of MEA 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.