



DURA 'TECH' '@@7''

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)

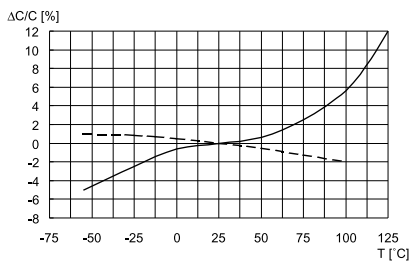
Typical Value 1KHz:

- * Polyester: 0.5
- * Polypropylene: 0.05

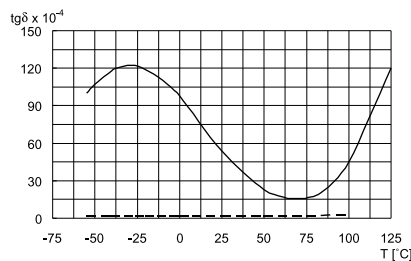
TYPICAL GRAPHS:

———— Polyester

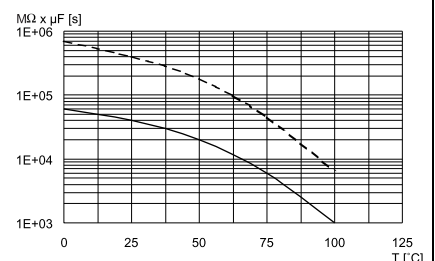
----- Polypropylene



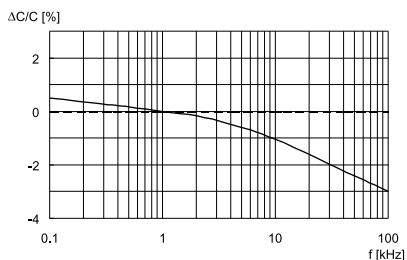
Capacitance change vs. temperature at 1kHz



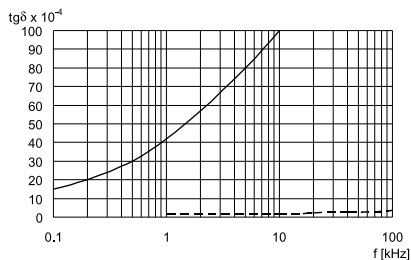
Dissipation factor vs. temperature at 1kHz



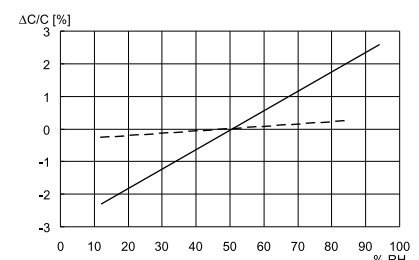
Time constant vs. temperature



Capacitance change vs. frequency (Room temperature)



Dissipation factor vs. frequency (Room temperature)



Capacitance change vs. relative humidity (RH)



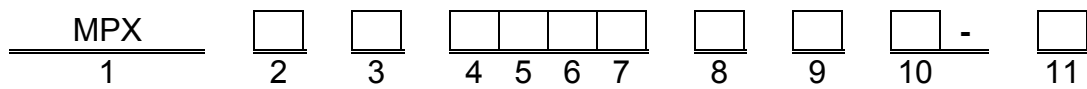
DURA 'TECH' '@@7'

Product

MPX series / Metalized Polypropylene Film Capacitors, Resin dipped.

PRODUCT CODE SYSTEM

The part number is for MPX as follows:



- | | |
|--------------|---|
| Digit 1 | MPX Standard Series name. MPXF Formed Series name. |
| Digit 2 | D.C. rated voltage
I = 250V; M = 400V; X = 450V; P = 630V; Y = 800V;
Q = 1000V; R = 1250V; T = 1600V. |
| Digit 3 | Pitch: (mm)
D=7.5; F=10; G=12.5; I=15; J=17.5; K=20;
N=22.5; M=25; R=27.5; T=32.5; Z=Special |
| Digit 4 to 7 | Digits 5-6-7 indicate the first three digits of capacitance value and 4 th 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;
C= 5±0.5mm; |
| Digit 9 | Capacitance tolerance:
H = ±3%, J = ±5%; K = ±10% |
| Digit 10 | Internal use for same pitch Special size : Internal +1..Internal+2...etc, |
| Digit 11 | Internal use for Halogen Free code is A. |

GENERAL TECHNICAL DATA

- Dielectric: Polypropylene 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 (for pitch = 7.5mm or higher only).
- Related standard: IEC 60384-16



DURA 'TECH' '@@7'

Specification of MPX Series

Electrical characteristics

Rated voltage (Vr)	250V, 400V, 450V, 630V, 800V, 1000V, 1250V, 1600Vdc.
Capacitance Range	250Vdc. 0.01~10.0uf 400Vdc. 0.01~3.3uf 630Vdc. 0.0082~2.2uf 800Vdc. 0.001~0.68uf 1000Vdc. 0.001~0.22uf 1250Vdc. 0.001~0.18uf 1600Vdc. 0.001~0.10uf
Rated temperature	-40°C ~ +105°C.
Capacitance tolerance Temperature: +25°C Frequency: 1KHz.	±3%, ±5%, ±10%,
D.F value Temperature: +25°C	C > 1μF, D.F ≤ 0.001 at 1Khz C ≤ 1μF, D.F ≤ 0.001 at 1Khz and D.F ≤ 0.0025 at 10Khz
Insulation Resistance 100Vdc Temperature: +25°C. Duration: 1 minute.	≥ 30000MΩ for C ≤ 0.33μF. ≥ 10000MΩ for C > 0.33μF.
Dielectric strength	1.6 x Vr applied for 2 sec at +25°C

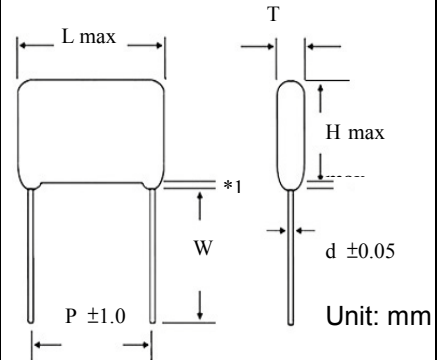
Test Item and performance

Test item	Test condition	Performance
Damp heat, steady state	Temperature: +40°C Humidity: 93% Duration:	$ \Delta C/C \leq 3\%$ D.F increase ≤ 0.0005 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 3\%$ C > 1μF, D.F change ≤ 0.0005 at 1Khz C ≤ 1μF, D.F change ≤ 0.0008 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 3\%$ C > 1μF, D.F change ≤ 0.0005 at 1Khz C ≤ 1μF, D.F change ≤ 0.0008 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 > 1μF, D.F change ≤ 0.0005 at 1Khz C ≤ 1μF, D.F change ≤ 0.0008 at 10Khz I.R $\leq 50\%$ of initial value
Load life test (Endurance)	Temperature: +85°C Test voltage: 1.25x Vr Duration: 500Hrs Removal from chamber for test less 4hrs for temperature recovery	$ \Delta C/C \leq 3\%$ C > 1μF, D.F change ≤ 0.0005 at 1Khz C ≤ 1μF, D.F change ≤ 0.0008 at 10Khz I.R $\leq 50\%$ of initial value
Long term stability	Temperature: -40°C ~ +85°C Humidity $\leq 70\%$ for yearly average Duration ≤ 12 months	$ \Delta C/C \leq 2\%$

Specification of MPX Series

Dimension

Part Number	Cap(μF)	250Vdc/125Vac				
		L	H	T	P	d
MPXIF2100	0.01	13.0	9.0	5.5	10.0	0.6
MPXIF2120	0.012	13.0	9.0	5.5	10.0	0.6
MPXIF2150	0.015	13.0	9.5	6.0	10.0	0.6
MPXIF2180	0.018	13.0	10.0	6.0	10.0	0.6
MPXIF2220	0.022	13.0	10.5	6.5	10.0	0.6
MPXIF2270	0.027	13.0	10.5	7.0	10.0	0.6
MPXIF2330	0.033	13.0	9.0	5.5	10.0	0.6
MPXIF2390	0.039	13.0	9.5	6.0	10.0	0.6
MPXIF2470	0.047	13.0	10.0	6.0	10.0	0.6
MPXIF2560	0.056	13.0	10.0	6.5	10.0	0.6
MPXIF2680	0.068	13.0	10.5	7.0	10.0	0.6
MPXIF2820	0.082	13.0	11.0	7.5	10.0	0.6
MPXIG3100	0.1	15.5	12.0	6.5	12.5	0.6
MPXIG3120	0.12	15.5	12.5	7.0	12.5	0.6
MPXIG3150	0.15	15.5	13.0	7.5	12.5	0.6
MPXIG3220	0.22	15.5	15.2	8.0	12.5	0.6
MPXIG3180	0.18	15.5	11.5	6.0	12.5	0.6
MPXIG3220	0.22	15.5	12.0	6.5	12.5	0.6
MPXIG3270	0.27	15.5	12.5	7.0	12.5	0.6
MPXIG3330	0.33	15.5	13.0	7.5	12.5	0.6
MPXIG3390	0.39	15.5	12.5	9.0	12.5	0.6
MPXIJ3470	0.47	20.5	13.5	7.0	17.5	0.8
MPXIJ3560	0.56	20.5	14.0	7.5	17.5	0.8
MPXIJ3680	0.68	20.5	14.5	8.0	17.5	0.8
MPXIJ3820	0.82	20.5	15.5	8.5	17.5	0.8
MPXIJ4100	1.0	20.5	16.0	9.5	17.5	0.8
MPXIJ4120	1.2	20.5	17.0	10.0	17.5	0.8
MPXIJ4150	1.5	20.5	18.0	11.0	17.5	0.8
MPXIN3680	0.68	25.5	18.5	9.5	22.5	0.8
MPXIN4100	1.0	25.5	14.5	8.5	22.5	0.8
MPXIN4180	1.8	25.5	19.5	9.5	22.5	0.8
MPXIN4220	2.2	25.5	20.5	10.5	22.5	0.8
MPXIN4270	2.7	25.5	21.5	11.5	22.5	0.8
MPXIN4330	3.3	25.5	22.5	12.5	22.5	0.8
MPXIR4390	3.9	31.0	22.5	13.0	27.5	0.8
MPXIR4470	4.7	31.0	24.0	14.0	27.5	0.8
MPXIR4560	5.6	31.0	25.0	15.5	27.5	0.8
MPXIR4680	6.8	31.0	26.0	17.5	27.5	0.8
MPXIT4820	8.2	37.0	25.5	17.0	32.5	0.8
MPXIT5100	10.0	37.0	26.5	20.0	32.5	0.8

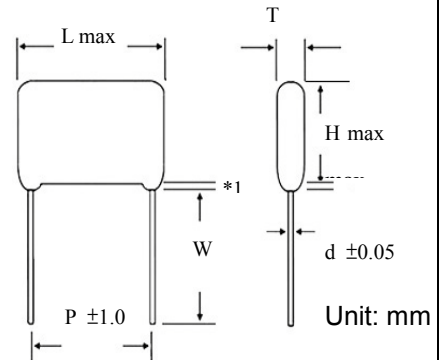


*1 : Max value 1.5mm
W : Please refer to the mechanical Version in the product code system.

Specification of MPX Series

Dimension

Part Number	Cap(μF)	400Vdc/200vac				
		L	H	T	P	d
MPXMF2100	0.01	13.0	9.0	5.5	10.0	0.6
MPXMF2120	0.012	13.0	9.0	5.5	10.0	0.6
MPXMF2150	0.015	13.0	9.5	6.0	10.0	0.6
MPXMF2180	0.018	13.0	10.0	6.0	10.0	0.6
MPXMF2220	0.022	13.0	10.5	6.5	10.0	0.6
MPXMF2270	0.027	13.0	10.5	7.0	10.0	0.6
MPXMF2330	0.033	13.0	9.0	5.5	10.0	0.6
MPXMF2390	0.039	13.0	9.5	6.0	10.0	0.6
MPXMF2470	0.047	13.0	10.0	6.0	10.0	0.6
MPXMF2560	0.056	13.0	10.0	6.5	10.0	0.6
MPXMF2680	0.068	13.0	10.5	7.0	10.0	0.6
MPXMF2820	0.082	13.0	11.0	7.5	10.0	0.6
MPXMG3100	0.1	15.5	12.0	6.5	12.5	0.6
MPXMG3120	0.12	15.5	12.5	7.0	12.5	0.6
MPXMG3150	0.15	15.5	13.0	7.5	12.5	0.6
MPXMI3180	0.18	18.5	13.5	7.0	15.0	0.8
MPXMI3220	0.22	18.5	14.0	7.5	15.0	0.8
MPXMI3270	0.27	18.5	15.0	8.0	15.0	0.8
MPXMI3330	0.33	18.5	15.5	9.0	15.0	0.8
MPXMI3390	0.39	18.5	15.5	10.0	15.0	0.8
MPXMJ3470	0.47	20.5	16.5	9.5	17.5	0.8
MPXMJ3560	0.56	20.5	17.0	10.5	17.5	0.8
MPXMJ3680	0.68	20.5	17.5	12.0	17.5	0.8
MPXMN3820	0.82	25.5	18.5	10.0	22.5	0.8
MPXMN4100	1	25.5	19.5	11.0	22.5	0.8
MPXMN4120	1.2	25.5	20.5	12.0	22.5	0.8
MPXMN4150	1.5	25.5	22.0	13.5	22.5	0.8
MPXMR4180	1.8	31.0	23.0	13.0	27.5	0.8
MPXMR4220	2.2	31.0	24.5	14.5	27.5	0.8
MPXMT4270	2.7	37.0	24.0	14.0	32.5	0.8
MPXMT4330	3.3	37.0	25.0	16.5	32.5	0.8

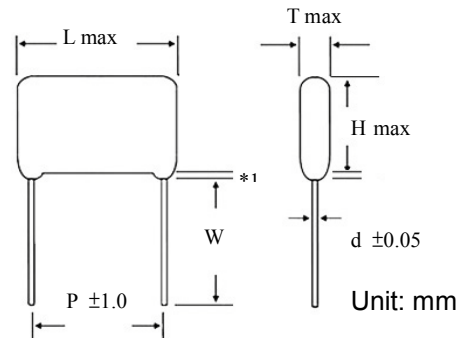


*1 : Max value 1.5mm
W : Please refer to the mechanical Version in the product code system.

Specification of MPX Series

Dimension

Part Number	Cap(μF)	450Vdc/200vac				
		L	H	T	P	d
MPXXF2100	0.01	13.0	9.0	5.5	10.0	0.6
MPXXF2120	0.012	13.0	9.0	5.5	10.0	0.6
MPXXF2150	0.015	13.0	9.5	6.0	10.0	0.6
MPXXF2180	0.018	13.0	10.0	6.0	10.0	0.6
MPXXF2220	0.022	13.0	10.5	6.5	10.0	0.6
MPXXF2270	0.027	13.0	10.5	7.0	10.0	0.6
MPXXF2330	0.033	13.0	9.0	5.5	10.0	0.6
MPXXF2390	0.039	13.0	9.5	6.0	10.0	0.6
MPXXF2470	0.047	13.0	10.0	6.0	10.0	0.6
MPXXF2560	0.056	13.0	10.0	6.5	10.0	0.6
MPXXF2680	0.068	13.0	10.5	7.0	10.0	0.6
MPXXF2820	0.082	13.0	11.0	7.5	10.0	0.6
MPXXG3100	0.1	15.5	12.0	6.5	12.5	0.6
MPXXG3120	0.12	15.5	12.5	7.0	12.5	0.6
MPXXG3150	0.15	15.5	13.0	7.5	12.5	0.6
MPXXI3180	0.18	18.5	13.5	7.0	15.0	0.8
MPXXI3220	0.22	18.5	14.0	7.5	15.0	0.8
MPXXI3270	0.27	18.5	15.0	8.0	15.0	0.8
MPXXI3330	0.33	18.5	15.5	9.0	15.0	0.8
MPXXI3390	0.39	18.5	15.5	10.0	15.0	0.8
MPXXJ3470	0.47	20.5	16.5	9.5	17.5	0.8
MPXXJ3560	0.56	20.5	17.0	10.5	17.5	0.8
MPXXJ3680	0.68	20.5	17.5	12.0	17.5	0.8
MPXXN3820	0.82	25.5	18.5	10.0	22.5	0.8
MPXXN4100	1	25.5	19.5	11.0	22.5	0.8
MPXXN4120	1.2	25.5	20.5	12.0	22.5	0.8
MPXXN4150	1.5	25.5	22.0	13.5	22.5	0.8
MPXXR4180	1.8	31.0	23.0	13.0	27.5	0.8
MPXXR4220	2.2	31.0	24.5	14.5	27.5	0.8
MPXXT4270	2.7	37.0	24.0	14.0	32.5	0.8
MPXXT4330	3.3	37.0	25.0	16.5	32.5	0.8

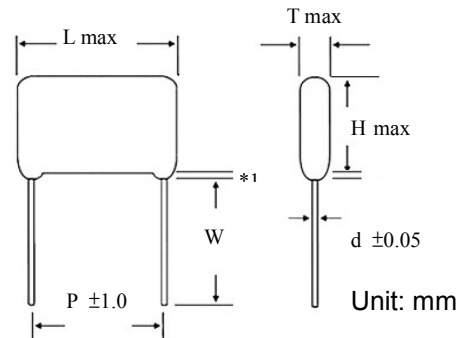


*1 : Max value 1.5mm
W : Please refer to the mechanical Version in the product code system.

Specification of MPX Series

Dimension

Part Number	Cap(μF)	630Vdc/200Vac				
		L	H	T	P	d
MPXPD1820	0.0082	10.3	10.0	5.0	7.5	0.6
MPXPD2270	0.027	10.3	10.5	5.5	7.5	0.6
MPXPF1820	0.0082	12.5	10.0	4.5	10.0	0.6
MPXPF2100	0.01	13.0	9.0	5.5	10.0	0.6
MPXPF2120	0.012	13.0	9.0	5.5	10.0	0.6
MPXPF2150	0.015	13.0	9.5	6.0	10.0	0.6
MPXPF2180	0.018	13.0	10.0	6.0	10.0	0.6
MPXPF2220	0.022	13.0	10.5	6.5	10.0	0.6
MPXPF2270	0.027	13.0	10.5	7.0	10.0	0.6
MPXPF2470	0.047	13.0	11.5	7.0	10.0	0.6
MPXPG2330	0.033	15.5	11.5	6.5	12.5	0.6
MPXPG2390	0.039	15.5	12.0	6.5	12.5	0.6
MPXPG2470	0.047	15.5	12.5	7.0	12.5	0.6
MPXPG2560	0.056	15.5	13.0	7.5	12.5	0.6
MPXPG2680	0.068	15.5	12.5	9.0	12.5	0.6
MPXPI2820	0.082	18.5	14.0	7.0	15.0	0.8
MPXPI3100	0.1	18.5	14.5	8.0	15.0	0.8
MPXPI3120	0.12	18.5	15.0	8.5	15.0	0.8
MPXPI3150	0.15	18.5	16.0	9.5	15.0	0.8
MPXPJ3180	0.18	20.5	16.0	9.5	17.5	0.8
MPXPJ3220	0.22	20.5	17.0	10.0	17.5	0.8
MPXPJ3270	0.27	20.5	18.0	11.0	17.5	0.8
MPXPN3330	0.33	25.5	18.5	10.0	22.5	0.8
MPXPN3390	0.39	25.5	19.0	10.5	22.5	0.8
MPXPN3470	0.47	25.5	20.0	11.5	22.5	0.8
MPXPN3560	0.56	25.5	21.0	13.0	22.5	0.8
MPXPN3680	0.68	25.5	22.5	14.0	22.5	0.8
MPXPR3820	0.82	31.0	23.5	13.5	27.5	0.8
MPXPR4100	1	31.0	25.0	15.0	27.5	0.8
MPXPR4120	1.2	31.0	26.0	16.5	27.5	0.8
MPXPT4150	1.5	37.0	25.5	17.0	32.5	0.8
MPXPT4180	1.8	37.0	26.0	19.5	32.5	0.8
MPXPT4220	2.2	37.0	28.0	21.0	32.5	0.8

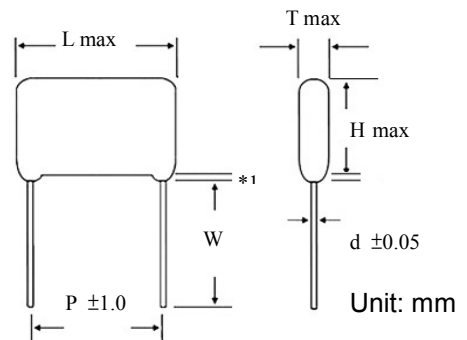


*1 : Max value 1.5mm
W : Please refer to the mechanical Version in the product code system.

Specification of MPX Series

Dimension

Part Number	Cap(μF)	800Vdc/250Vac				
		L	H	T	P	d
MPXYI1100	0.001	18.5	9.0	5.5	15.0	0.6
MPXYI1120	0.0012	18.5	9.5	6.0	15.0	0.6
MPXYI1150	0.0015	18.5	10.0	6.5	15.0	0.6
MPXYI1180	0.0018	18.5	10.5	7.0	15.0	0.6
MPXYI1220	0.0022	18.5	11.0	7.5	15.0	0.6
MPXYI1270	0.0027	18.5	9.0	5.5	15.0	0.6
MPXYI1330	0.0033	18.5	9.5	6.0	15.0	0.6
MPXYI1390	0.0039	18.5	9.5	6.0	15.0	0.6
MPXYI1470	0.0047	18.5	11.0	6.0	15.0	0.6
MPXYI1560	0.0056	18.5	9.5	6.0	15.0	0.6
MPXYI1680	0.0068	18.5	10.0	6.0	15.0	0.6
MPXYI1820	0.0082	18.5	9.0	5.5	15.0	0.6
MPXYI2100	0.01	18.5	9.5	6.0	15.0	0.6
MPXYI2120	0.012	18.5	11.0	6.0	15.0	0.6
MPXYI2150	0.015	18.5	9.5	6.0	15.0	0.6
MPXYI2180	0.018	18.5	11.0	6.0	15.0	0.6
MPXYI2220	0.022	18.5	11.5	6.0	15.0	0.8
MPXYI2270	0.027	18.5	12.5	7.0	15.0	0.8
MPXYK2330	0.033	23.5	11.5	6.5	20.0	0.8
MPXYK2390	0.039	23.5	12.0	7.0	20.0	0.8
MPXYK2470	0.047	23.5	12.5	7.5	20.0	0.8
MPXYK2560	0.056	23.5	14.0	7.5	20.0	0.8
MPXYK2680	0.068	23.5	17.0	7.0	20.0	0.8
MPXYK2820	0.082	23.5	17.5	7.5	20.0	0.8
MPXYK3100	0.1	23.5	18.5	8.5	20.0	0.8
MPXYK3120	0.12	23.5	20.5	7.5	20.0	0.8
MPXYM3120	0.12	28.5	17.5	7.5	25.0	0.8
MPXYM3150	0.15	28.5	18.5	8.5	25.0	0.8
MPXYM3180	0.18	28.5	20.5	9.0	25.0	0.8
MPXYM3220	0.22	28.5	21.5	10.0	25.0	0.8
MPXYM3270	0.27	28.5	22.5	11.0	25.0	0.8
MPXYM3330	0.33	28.5	23.5	12.0	25.0	0.8
MPXYM3390	0.39	28.5	23.5	13.5	25.0	0.8
MPXYM3470	0.47	28.5	25.0	15.0	25.0	0.8
MPXYM3560	0.56	28.5	25.5	17.5	25.0	0.8
MPXYM3680	0.68	28.5	27.5	19.0	25.0	0.8

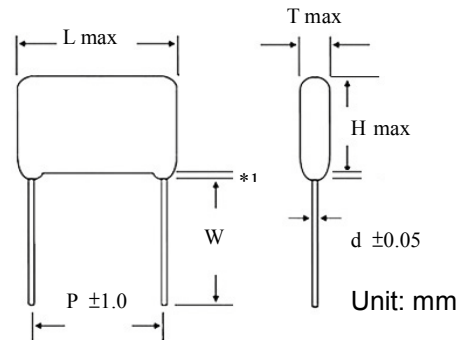


*1 : Max value 1.5mm
W : Please refer to the mechanical Version in the product code system.

Specification of MPX Series

Dimension

Part Number	Cap(uF)	1000Vdc/250Vac				
		L	H	T	P	d
MPXQI1100__	0.001	18.5	9.0	5.5	15.0	0.6
MPXQI1120__	0.0012	18.5	9.5	6.0	15.0	0.6
MPXQI1150__	0.0015	18.5	10.0	6.5	15.0	0.6
MPXQI1180__	0.0018	18.5	10.5	7.0	15.0	0.6
MPXQI1220__	0.0022	18.5	11.0	7.5	15.0	0.6
MPXQI1270__	0.0027	18.5	9.0	5.5	15.0	0.6
MPXQI1330__	0.0033	18.5	9.5	6.0	15.0	0.6
MPXQI1390__	0.0039	18.5	9.5	6.0	15.0	0.6
MPXQI1470__	0.0047	18.5	11.0	6.0	15.0	0.6
MPXQI1560__	0.0056	18.5	9.5	6.0	15.0	0.6
MPXQI1680__	0.0068	18.5	10.0	6.0	15.0	0.6
MPXQI1820__	0.0082	18.5	9.0	5.5	15.0	0.6
MPXQI2100__	0.01	18.5	9.5	6.0	15.0	0.6
MPXQI2120__	0.012	18.5	11.0	6.0	15.0	0.6
MPXQI2150__	0.015	18.5	11.5	6.0	15.0	0.8
MPXQI2180__	0.018	18.5	12.0	6.5	15.0	0.8
MPXQI2220__	0.022	18.5	12.5	7.0	15.0	0.8
MPXQI2270__	0.027	18.5	13.0	8.0	15.0	0.8
MPXQK2330__	0.033	23.5	12.5	7.0	20.0	0.8
MPXQK2390__	0.039	23.5	13.0	7.5	20.0	0.8
MPXQK2470__2	0.047	23.5	20.5	11.0	20.0	0.8
MPXQK2470__1	0.047	23.5	12.5	7.5	20.0	0.8
MPXQK2470__	0.047	23.5	14.5	7.5	20.0	0.8
MPXQK2560__	0.056	23.5	16.0	8.0	20.0	0.8
MPXQK2680__1	0.068	23.5	17.0	7.0	20.0	0.8
MPXQK2680__	0.068	23.5	18.0	8.0	20.0	0.8
MPXQK2820__1	0.082	23.5	17.5	7.5	20.0	0.8
MPXQK2820__	0.082	23.5	18.5	9.0	20.0	0.8
MPXQK3100__1	0.1	23.5	18.5	8.5	20.0	0.8
MPXQK3100__	0.1	23.5	19.5	9.5	20.0	0.8
MPXQM3120__	0.12	28.5	19.0	9.0	25.0	0.8
MPXQM3150__	0.15	28.5	20.0	10.0	25.0	0.8
MPXQM3180__	0.18	28.5	22.0	10.5	25.0	0.8
MPXQM3220__	0.22	28.5	23.0	11.5	25.0	0.8

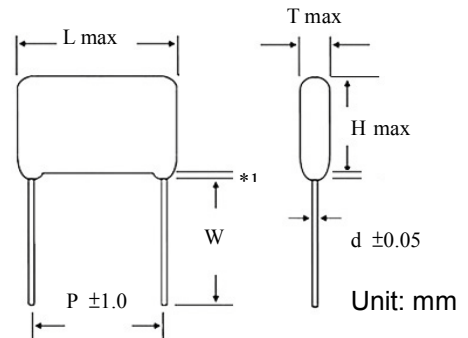


*1 : Max value 1.5mm
W : Please refer to the mechanical Version in the product code system.

Specification of MPX Series

Dimension

Part Number	Cap(uF)	1250Vdc/400Vac				
		L	H	T	P	d
MPXRI1100	0.001	18.5	9.0	5.5	15.0	0.6
MPXRI1120	0.0012	18.5	9.5	6.0	15.0	0.6
MPXRI1150	0.0015	18.5	10.0	6.5	15.0	0.6
MPXRI1180	0.0018	18.5	10.5	7.0	15.0	0.6
MPXRI1220	0.0022	18.5	11.0	7.5	15.0	0.6
MPXRI1270	0.0027	18.5	9.0	5.5	15.0	0.6
MPXRI1330	0.0033	18.5	9.5	6.0	15.0	0.6
MPXRI1390	0.0039	18.5	9.5	6.0	15.0	0.6
MPXRI1470	0.0047	18.5	11.0	6.0	15.0	0.6
MPXRI1560	0.0056	18.5	9.5	6.0	15.0	0.6
MPXRI1680	0.0068	18.5	10.0	6.0	15.0	0.6
MPXRI1820	0.0082	18.5	11.0	6.0	15.0	0.6
MPXRI2100	0.01	18.5	11.5	6.5	15.0	0.8
MPXRI2120	0.012	18.5	12.0	7.0	15.0	0.8
MPXRI2150	0.015	18.5	13.0	7.0	15.0	0.8
MPXRK2180	0.018	23.5	12.0	7.0	20.0	0.8
MPXRK2220	0.022	23.5	13.0	7.5	20.0	0.8
MPXRK2270	0.027	23.5	15.5	7.0	20.0	0.8
MPXRK2330	0.033	23.5	16.0	8.0	20.0	0.8
MPXRK2390	0.039	23.5	16.5	8.5	20.0	0.8
MPXRK2470	0.047	23.5	19.5	8.0	20.0	0.8
MPXRM2560	0.056	28.5	19.0	7.5	25.0	0.8
MPXRM2680	0.068	28.5	21.0	8.0	25.0	0.8
MPXRM2820	0.082	28.5	21.5	8.5	25.0	0.8
MPXRM3100	0.1	28.5	22.5	9.5	25.0	0.8
MPXRM3120	0.12	28.5	23.5	10.5	25.0	0.8
MPXRM3150	0.15	28.5	24.5	11.5	25.0	0.8
MPXRM3180	0.18	28.5	26.0	13.0	25.0	0.8

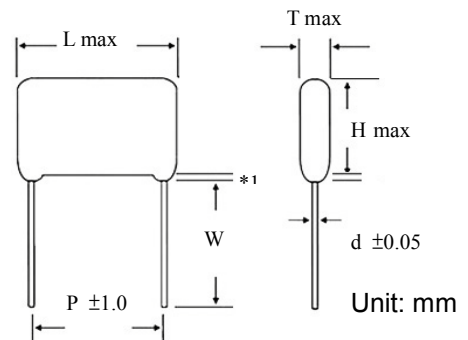


*1 : Max value 1.5mm
 W : Please refer to the mechanical Version in the product code system.

Specification of MPX Series

Dimension

Part Number	Cap(uF)	1600Vdc/450vac				
		L	H	T	P	d
MPXTI1100__	0.001	18.5	9.0	5.5	15.0	0.6
MPXTI1120__	0.0012	18.5	9.5	6.0	15.0	0.6
MPXTI1150__	0.0015	18.5	10.0	6.5	15.0	0.6
MPXTI1180__	0.0018	18.5	10.5	7.0	15.0	0.6
MPXTI1220__	0.0022	18.5	11.0	7.5	15.0	0.6
MPXTI1270__	0.0027	18.5	9.0	5.5	15.0	0.6
MPXTI1330__	0.0033	18.5	9.5	6.0	15.0	0.6
MPXTI1390__	0.0039	18.5	11.0	6.0	15.0	0.6
MPXTI1470__	0.0047	18.5	11.0	6.0	15.0	0.8
MPXTI1560__	0.0056	18.5	11.5	6.5	15.0	0.8
MPXTI1680__	0.0068	18.5	12.0	7.0	15.0	0.8
MPXTI1820__	0.0082	18.5	12.5	7.5	15.0	0.8
MPXTK2100__	0.01	23.5	12.5	7.5	20.0	0.8
MPXTK2120__	0.012	23.5	13.0	8.0	20.0	0.8
MPXTK2150__	0.015	23.5	15.0	8.0	20.0	0.8
MPXTK2180__	0.018	23.5	16.5	8.0	20.0	0.8
MPXTM2220__	0.022	28.5	15.0	8.0	25.0	0.8
MPXTM2270__	0.027	28.5	17.0	8.5	25.0	0.8
MPXTM2330__	0.033	28.5	20.0	8.5	25.0	0.8
MPXTM2390__	0.039	28.5	21.5	8.5	25.0	0.8
MPXTM2470__	0.047	28.5	22.5	9.5	25.0	0.8
MPXTM2560__	0.056	28.5	23.5	10.0	25.0	0.8
MPXTM2680__	0.068	28.5	24.5	11.5	25.0	0.8
MPXTM2820__	0.082	28.5	25.5	12.5	25.0	0.8
MPXTM3100__	0.1	28.5	27.0	14.0	25.0	0.8



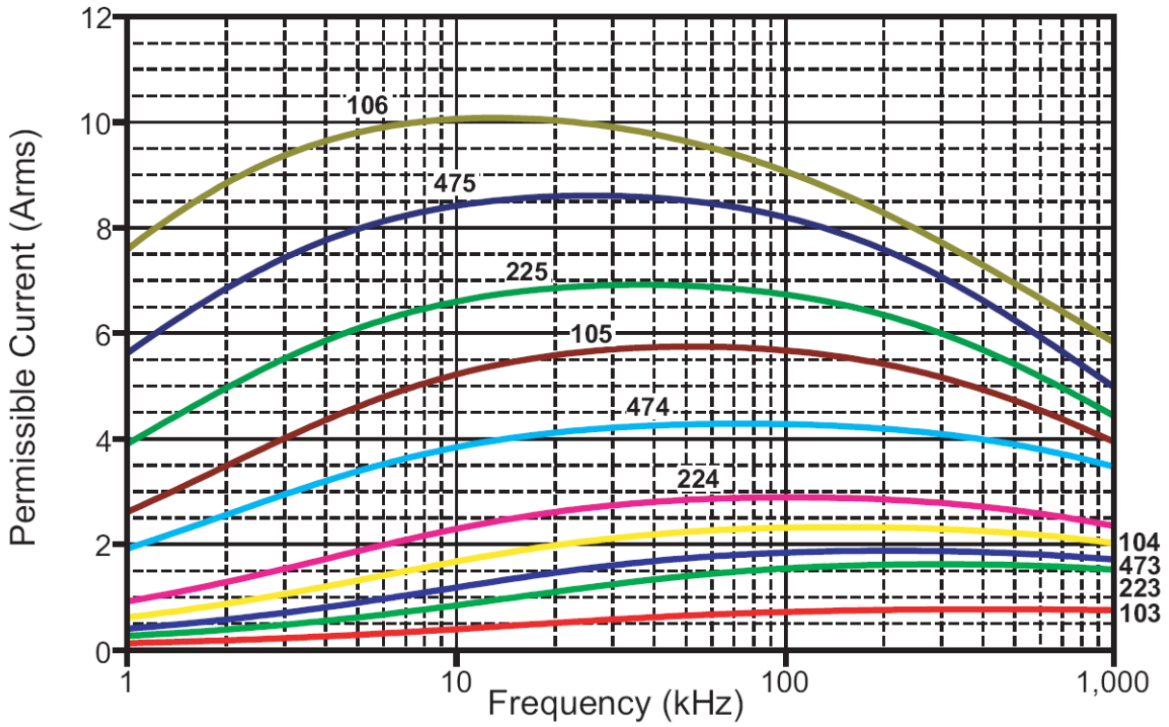
*1 : Max value 1.5mm
W : Please refer to the mechanical Version in the product code system.



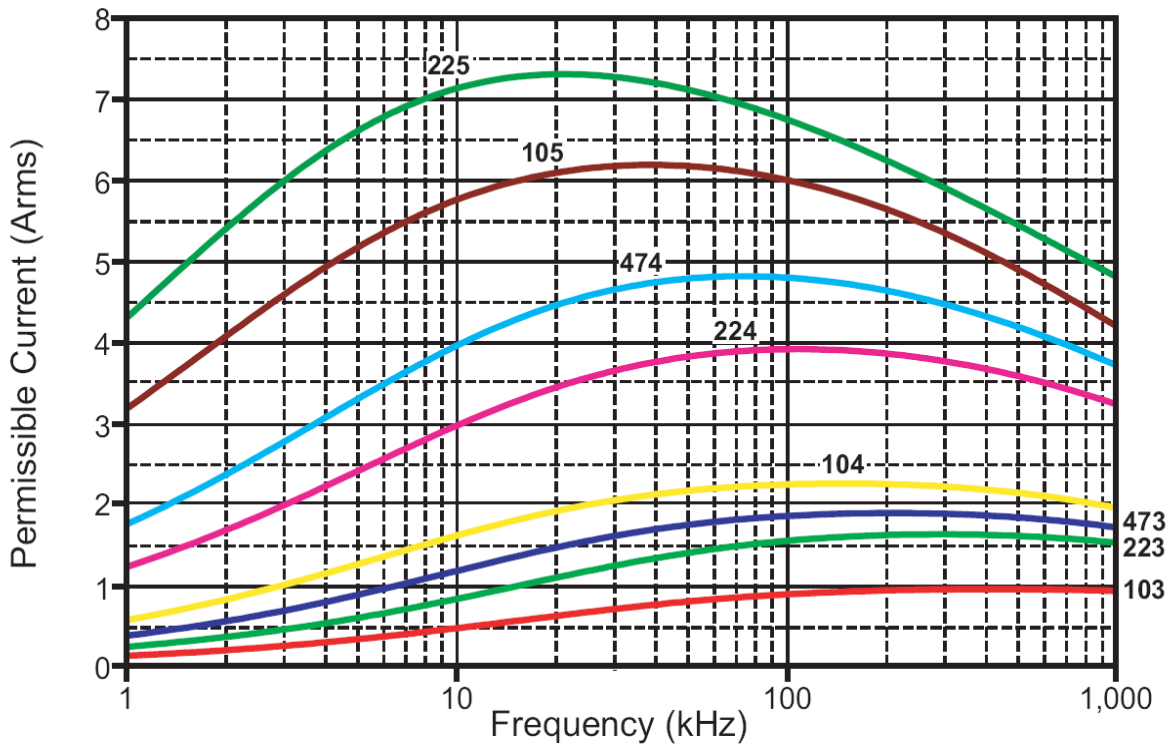
DURA 'TECH' '@@7"

Specification of MPX Series

MPX 250V



MPX 400/450V

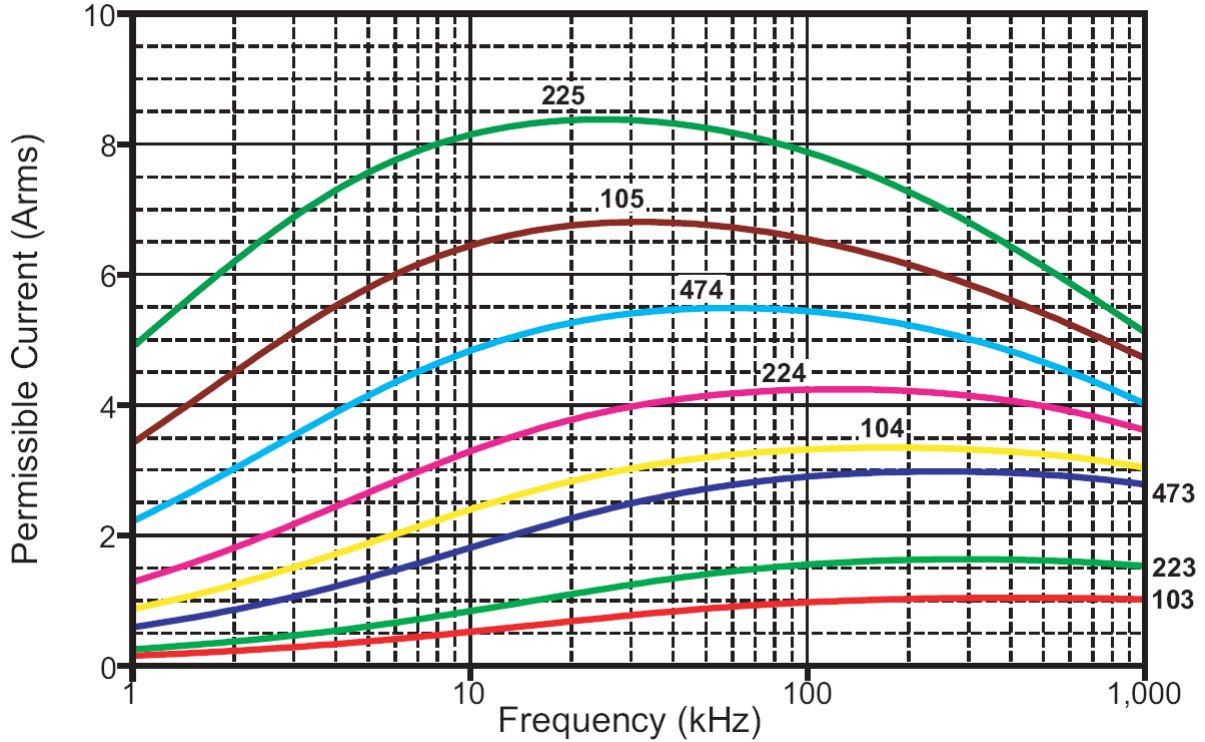




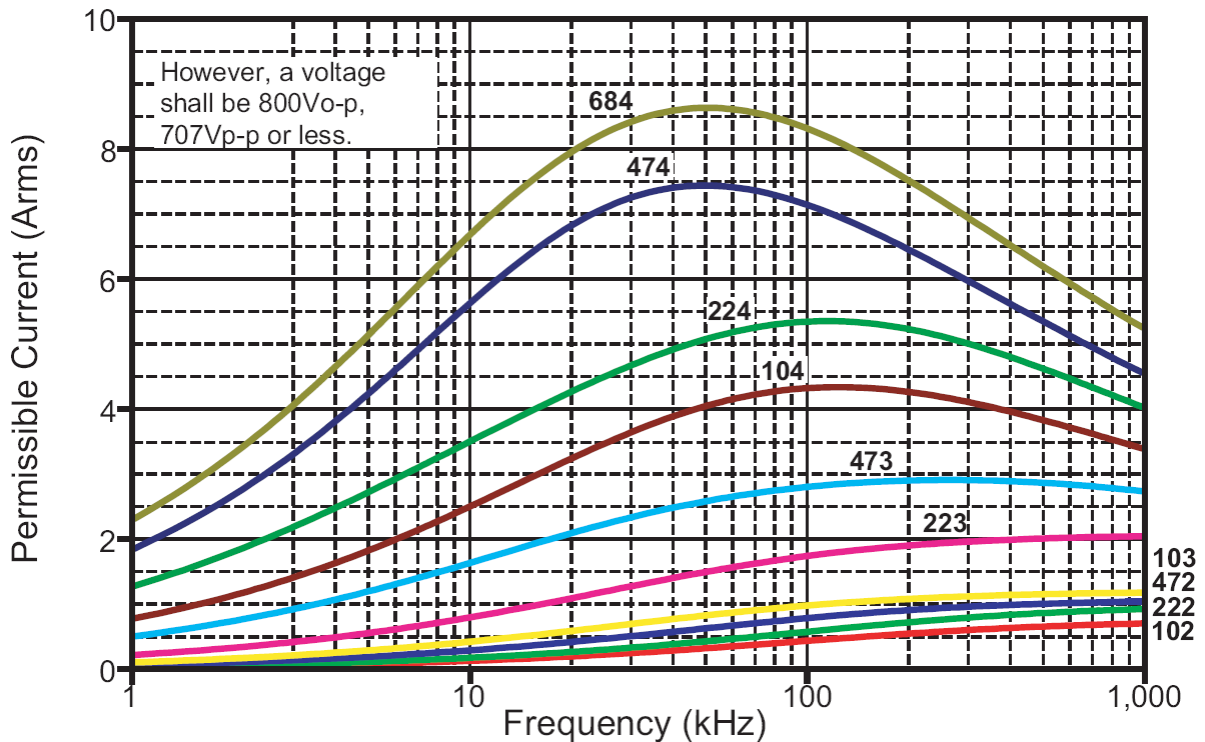
DURA 'TECH' '@@7"

Specification of MPX Series

MPX 630V



MPX 800V

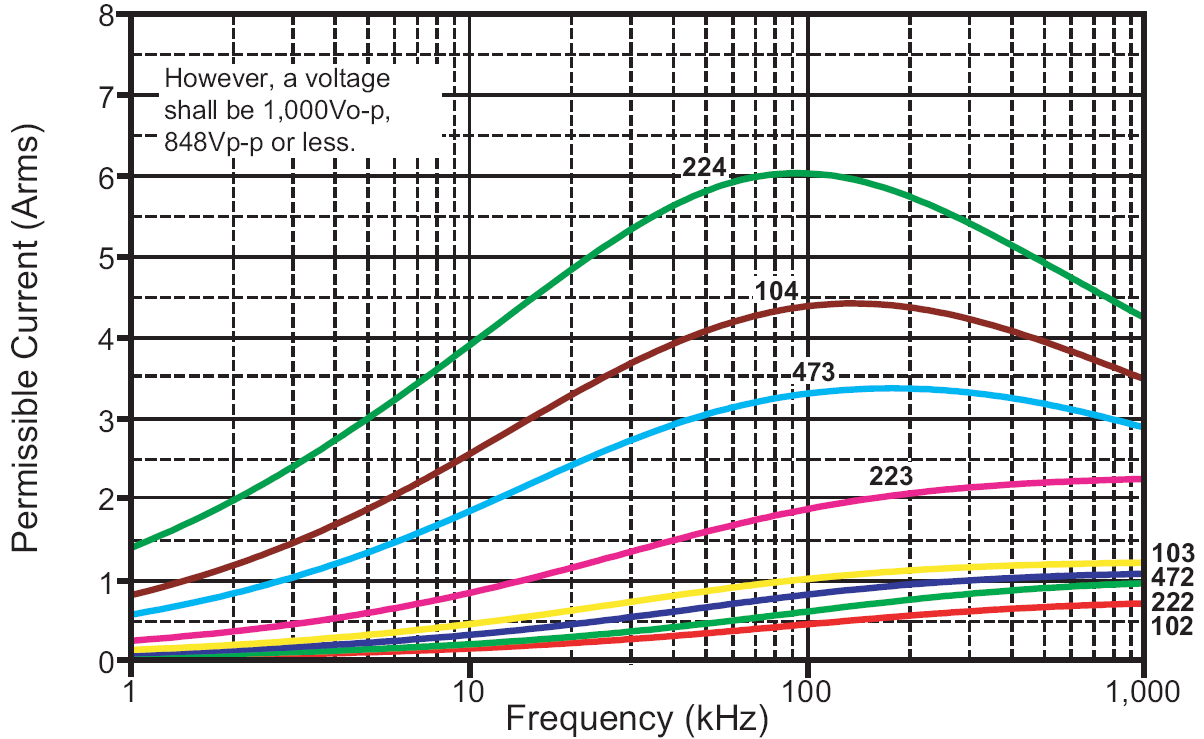




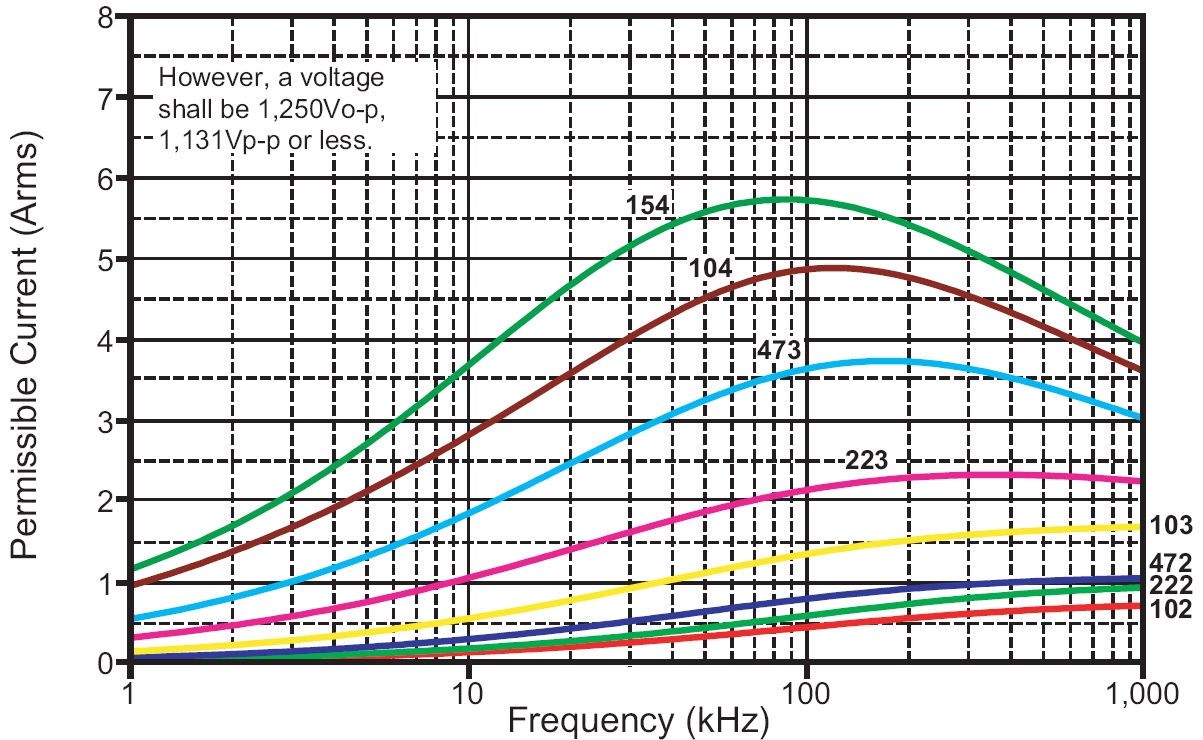
DURA 'TECH' '@@7"

Specification of MPX Series

MPX 1000V



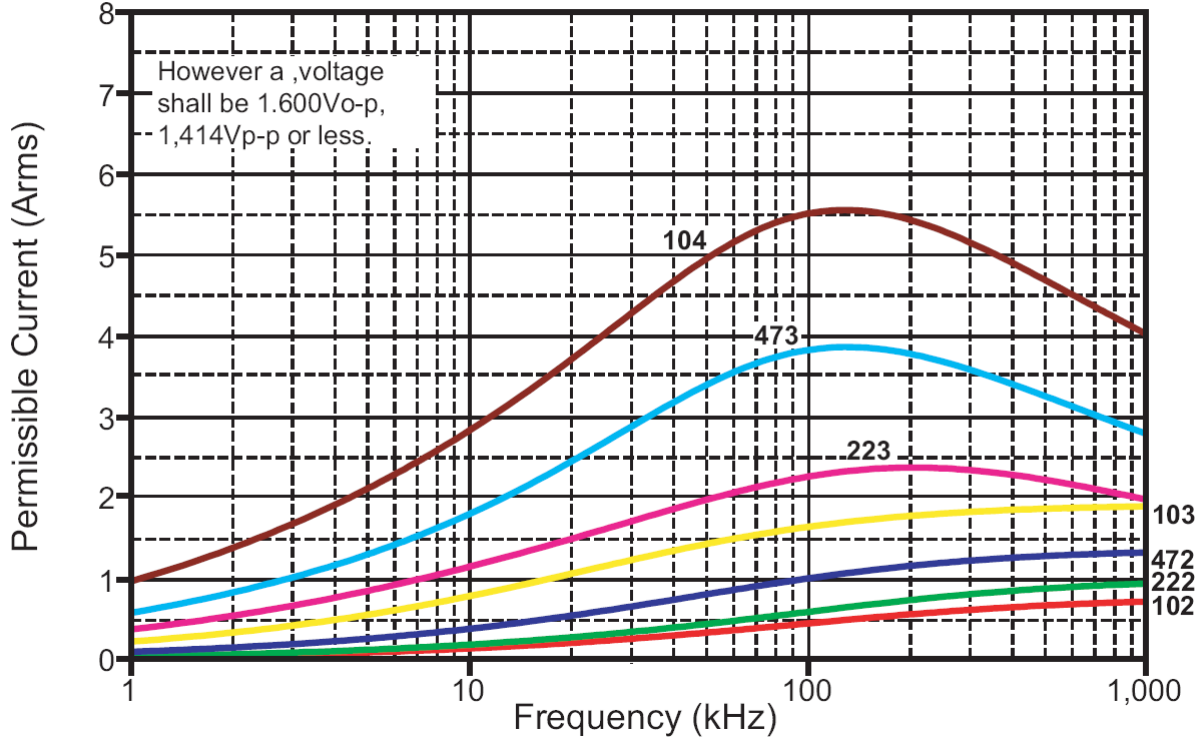
MPX 1250V





Specification of MPX Series

MPX 1600V



Specification of MEID 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

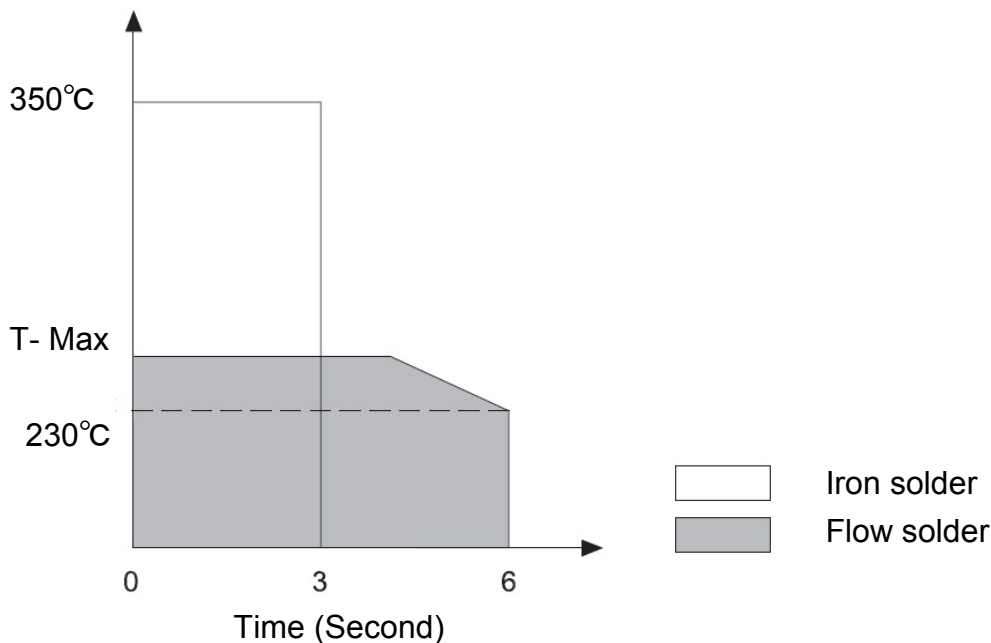
Time

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 MPX 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.

Formed lead type

Rated voltage (Vdc)	Cap (pF)	Pitch (mm)		
			Capacitance	Capacitance
250 Vdc	103~106	F=7.5	103~823	104~155
		10	103~394	474~155
		12.5		474~155
		17.5		185~335
		22.5		395~685
		27.5		825~106
400 Vdc 450 Vdc	103~335	F=7.5	103~823	104~684
		10	103~154	184~684
		12.5	184~394	474~684
		17.5		824~155
		22.5		185~225
		27.5		275~335
630 Vdc	103~225	F=7.5	103~273	333~274
		10	103~683	823~274
		12.5	823~154	184~274
		17.5		334~684
		22.5		824~125
		27.5		155~225
800 Vdc	102~684	F=7.5		102~273
		15	102~273	333~684
		20	333~104	
		25	124~684	
1000 Vdc	102~224	F=7.5		102~273
		15	102~273	333~224
		17.5		473
		20	333~104	
		25	124~224	
1250 Vdc	102~184	F=7.5		102~153
		15	102~153	183~184
		20	183~473	
		25	563~184	
1600 Vdc	102~104	F=7.5		102~822
		15	102~822	103~104
		20	103~183	
		25	223~104	