SPECIFICATION FOR APPROVAL

File No.: Q/FRK 0.GS.E.C32-C12

Product Name	Metallized polypropylene film capacitor (Box-type)
Product Type	MKP21
Product Code	C32
Customer	
Customer Code	
Issue Date	2020-03

Xiamen Faratronic Co. Ltd.			Approved by Customer
Drafted	Checked	Approved	

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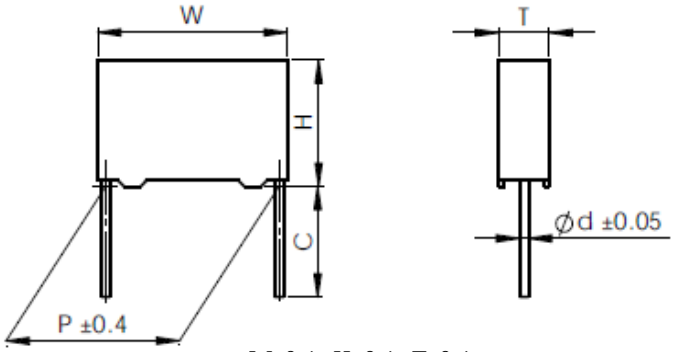
Version history

Current version	Date	Author	Change description

Metallized polypropylene film capacitor (Box-type)

■ Outline Drawing



W±0.4, H±0.4, T±0.4

■ Features

- Metallized polypropylene structure
- Low loss at high frequency
- Small inherent temperature rise
- Plastic case（UL94 V-0），Epoxy resin sealing

■ Typical application

- Widely used in high frequency, DC,AC and pulse circuits
- S-correction circuits for TV sets and monitors

■ Specifications

Reference Standard	GB/T 10190 (IEC 60384-16)						
Climatic Category	55/105/56						
Rated temperature	85℃						
Operating temperature	-55℃~105℃ (+85℃ to +105℃: decreasing factor 1.25% per ℃ for U_R)						
Rated Voltage	160Vdc(90Vac); 250Vdc(160Vac); 400Vdc(220Vac); 630Vdc(250Vac); 1 000Vdc(400Vac); 1 600Vdc(600Vac); 2 000Vdc(700Vac)						
Capacitance Range	0.00056~15.0μF						
Capacitance Tolerance	±2% (G), ±3% (H), ±5%(J), ±10% (K), ±20% (M)						
Voltage Proof	1.6U_R (5s)						
Dissipation Factor	≤10×10^{-4}(20℃, 1kHz)						
Insulation Resistance	R≥100 000MΩ, C_N≤0.33μF RC_N≥30 000s, C_N>0.33μF (20℃, 100V, 1min)						
Maximum Pulse Rise Time(dV/dt) If the working voltage(U) is lower than the rated voltage(U_R),the capacitor can be worked at a higher dV/dt. In this case, the maximum allowed dV/dt is obtain by multiplying the right value with U_R/U.	U_R(V)	dV/dt(V/us)					
		P=5.0	P=7.5	P=10.0	P=15.0	P=22.5	P=27.5
	160	110	310	190	110	65	55
	250	270	660	560	310	130	110
	400	440	900	780	600	300	130
	630	550	1500	1200	900	400	200
	1 000	--	--	2200	2 000	800	--
	1 600	--	--	--	4 500	1 800	--
	2 000	--	--	--	9 500	4 500	--

■ Part number system

The 15 digits part number is formed as follow:

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
C	3	2												

Digit 1 to 3 Series code

C32=MKP21

Digit 4 to 5 D.C. rated voltage

2C=160V 2E=250V 2G=400V

2J=630V 3A=1000V 3C=1600V

3D=2000V

Digit 6 to 8 Rated capacitance value

For example : 103=10 ×10^3 pF= 0.01μF

Digit 9 Capacitance tolerance

G=±2%, H=±3%, J=±5%

K=±10%, M=±20%

Digit 10 Pitch

2=5.0mm 3=7.5mm 4=10mm

6=15mm 9=22.5mm B=27.5mm

Digit 11 Internal use

Digit 12 to 15 Lead form and packaging code

Table 1 Lead form and packaging code

Digit 12		Digit 13		Digit 14		Digit 15	
code	explanation	code	explanation	code	explanation	code	explanation
A	ammo-pack	2 3 4 6	F=5.0mm F=7.5mm F=10.0mm F=15.0mm	0	straight	1 5	each cap. among two consecutive holes P3=12.7mm,H=18.5mm (For pitch=5.0/7.5mm) P3=25.4mm;H=18.5mm (For pitch=10/15mm)
C	straight lead "C" in the figure above	code	explanation			0	Length tolerance ±0.5mm Or standard length
		00 45	standard lead length (18mm~26mm) lead length 4.5mm				
Note: Recommend short lead due to long lead could deform easily.							

■ Dimensions (mm)

160Vdc（90Vac）							160Vdc（90Vac）							160Vdc（90Vac）						
C_N (μF)	W	H	T	P	d	Part number	C_N (μF)	W	H	T	P	d	Part number	C_N (μF)	W	H	T	P	d	Part number
0.027	7.2	7.5	3.5	5.0	0.5	C322C273-20****	0.22	13.0	12.0	6.0	10.0	0.6	C322C224-40****	1.5	26.5	17.0	8.5	22.5	0.8	C322C155-90****
0.033	7.2	7.5	3.5	5.0	0.5	C322C333-20****	0.27	13.0	12.0	6.0	10.0	0.6	C322C274-40****	1.8	26.5	18.5	10.0	22.5	0.8	C322C185-90****
0.039	7.2	7.5	3.5	5.0	0.5	C322C393-20****	0.18	17.5	11.0	5.0	15.0	0.8	C322C184-60****	2.2	26.5	20.0	11.0	22.5	0.8	C322C225-90****
0.047	7.2	9.5	4.5	5.0	0.6	C322C473-20****	0.22	17.5	11.0	5.0	15.0	0.8	C322C224-60****	2.7	26.5	22.0	12.0	22.5	0.8	C322C275-90****
0.056	7.2	9.5	4.5	5.0	0.6	C322C563-20****	0.27	17.5	11.0	5.0	15.0	0.8	C322C274-60****	3.3	26.5	22.0	12.0	22.5	0.8	C322C335-90****
0.068	7.2	9.5	4.5	5.0	0.6	C322C683-20****	0.33	17.5	11.0	5.0	15.0	0.8	C322C334-60****	1.0	32.0	18.0	9.0	27.5	0.8	C322C105-B0****
0.082	7.2	10.0	5.0	5.0	0.6	C322C823-20****	0.39	17.5	12.0	6.0	15.0	0.8	C322C394-60****	1.2	32.0	18.0	9.0	27.5	0.8	C322C125-B0****
0.10	7.2	10.0	5.0	5.0	0.6	C322C104-20****	0.47	17.5	12.0	6.0	15.0	0.8	C322C474-60****	1.5	32.0	18.0	9.0	27.5	0.8	C322C155-B0****
0.12	7.2	11.0	6.0	5.0	0.6	C322C124-20****	0.56	17.5	13.5	7.5	15.0	0.8	C322C564-60****	1.8	32.0	18.0	9.0	27.5	0.8	C322C185-B0****
0.15	7.2	11.0	6.0	5.0	0.6	C322C154-20****	0.68	17.5	13.5	7.5	15.0	0.8	C322C684-60****	2.2	32.0	18.0	9.0	27.5	0.8	C322C225-B0****
0.068	10.5	9.0	4.0	7.5	0.6	C322C683-30****	0.82	17.5	14.5	8.5	15.0	0.8	C322C824-60****	2.7	32.0	20.0	11.0	27.5	0.8	C322C275-B0****
0.082	10.5	9.0	4.0	7.5	0.6	C322C823-30****	1.0	17.5	16.0	10.0	15.0	0.8	C322C105-60****	3.3	32.0	20.0	11.0	27.5	0.8	C322C335-B0****
0.10	10.5	11.0	5.0	7.5	0.6	C322C104-30****	1.2	17.5	16.0	10.0	15.0	0.8	C322C125-60****	3.9	32.0	22.0	13.0	27.5	0.8	C322C395-B0****
0.12	10.5	11.0	5.0	7.5	0.6	C322C124-30****	1.5	17.5	19.0	11.0	15.0	0.8	C322C155-60****	4.7	32.0	28.0	14.0	27.5	0.8	C322C475-B0****
0.15	10.5	12.0	6.0	7.5	0.6	C322C154-30****	1.8	17.5	19.0	11.0	15.0	0.8	C322C185-60****	5.6	32.0	24.5	15.0	27.5	0.8	C322C565-B0****
0.18	10.5	12.0	6.0	7.5	0.6	C322C184-30****	0.47	26.5	15.0	6.0	22.5	0.8	C322C474-90****	6.8	32.0	33.0	18.0	27.5	0.8	C322C685-B0****
0.082	13.0	9.0	4.0	10.0	0.6	C322C823-40****	0.56	26.5	15.0	6.0	22.5	0.8	C322C564-90****	8.2	32.0	33.0	18.0	27.5	0.8	C322C825-B0****
0.10	13.0	9.0	4.0	10.0	0.6	C322C104-40****	0.68	26.5	15.0	6.0	22.5	0.8	C322C684-90****	10.0	32.0	33.0	18.0	27.5	0.8	C322C106-B0****
0.12	13.0	11.0	5.0	10.0	0.6	C322C124-40****	0.82	26.5	16.0	7.0	22.5	0.8	C322C824-90****	12.0	32.0	37.0	22.0	27.5	0.8	C322C126-B0****
0.15	13.0	11.0	5.0	10.0	0.6	C322C154-40****	1.0	26.5	16.0	7.0	22.5	0.8	C322C105-90****	15.0	32.0	37.0	22.0	27.5	0.8	C322C156-B0****
0.18	13.0	11.0	5.0	10.0	0.6	C322C184-40****	1.2	26.5	17.0	8.5	22.5	0.8	C322C125-90****							

Note：1. "-"=capacitance tolerance code, M=±20%,K=±10%,J=±5%,H=±3%,G=±2%

2. "****"=lead form and packing code（refer to table 1）

■ Dimensions (mm)

250Vdc（160Vac）							250Vdc（160Vac）							250Vdc（160Vac）						
C_N (μF)	W	H	T	P	d	Part number	C_N (μF)	W	H	T	P	d	Part number	C_N (μF)	W	H	T	P	d	Part number
0.012	7.2	7.5	3.5	5.0	0.5	C322E123-20****	0.047	13.0	9.0	4.0	10.0	0.6	C322E473-40****	0.68	26.5	15.0	6.0	22.5	0.8	C322E684-90****
0.015	7.2	7.5	3.5	5.0	0.5	C322E153-20****	0.056	13.0	9.0	4.0	10.0	0.6	C322E563-40****	0.82	26.5	15.0	6.0	22.5	0.8	C322E824-90****
0.018	7.2	7.5	3.5	5.0	0.5	C322E183-20****	0.068	13.0	9.0	4.0	10.0	0.6	C322E683-40****	1.0	26.5	16.0	7.0	22.5	0.8	C322E105-90****
0.022	7.2	7.5	3.5	5.0	0.5	C322E223-20****	0.082	13.0	9.0	4.0	10.0	0.6	C322E823-40****	1.2	26.5	17.0	8.5	22.5	0.8	C322E125-90****
0.027	7.2	7.5	3.5	5.0	0.5	C322E273-20****	0.10	13.0	11.0	5.0	10.0	0.6	C322E104-40****	1.5	26.5	17.0	8.5	22.5	0.8	C322E155-90****
0.033	7.2	7.5	3.5	5.0	0.5	C322E333-20****	0.12	13.0	11.0	5.0	10.0	0.6	C322E124-40****	1.8	26.5	18.5	10.0	22.5	0.8	C322E185-90****
0.039	7.2	7.5	3.5	5.0	0.5	C322E393-20****	0.15	13.0	11.0	5.0	10.0	0.6	C322E154-40****	2.2	26.5	20.0	11.0	22.5	0.8	C322E225-90****
0.047	7.2	9.5	4.5	5.0	0.6	C322E473-20****	0.18	13.0	12.0	6.0	10.0	0.6	C322E184-40****	2.7	26.5	22.0	12.0	22.5	0.8	C322E275-90****
0.056	7.2	9.5	4.5	5.0	0.6	C322E563-20****	0.22	13.0	12.0	6.0	10.0	0.6	C322E224-40****	0.82	32.0	18.0	9.0	27.5	0.8	C322E824-B0****
0.068	7.2	10.0	5.0	5.0	0.6	C322E683-20****	0.10	17.5	11.0	5.0	15.0	0.8	C322E104-60****	1.0	32.0	18.0	9.0	27.5	0.8	C322E105-B0****
0.082	7.2	10.0	5.0	5.0	0.6	C322E823-20****	0.12	17.5	11.0	5.0	15.0	0.8	C322E124-60****	1.2	32.0	18.0	9.0	27.5	0.8	C322E125-B0****
0.10	7.2	11.0	6.0	5.0	0.6	C322E104-20****	0.15	17.5	11.0	5.0	15.0	0.8	C322E154-60****	1.5	32.0	18.0	9.0	27.5	0.8	C322E155-B0****
0.12	7.2	11.0	6.0	5.0	0.6	C322E124-20****	0.18	17.5	11.0	5.0	15.0	0.8	C322E184-60****	1.8	32.0	18.0	9.0	27.5	0.8	C322E185-B0****
0.027	10.5	9.0	4.0	7.5	0.6	C322E273-30****	0.22	17.5	11.0	5.0	15.0	0.8	C322E224-60****	2.2	32.0	18.0	9.0	27.5	0.8	C322E225-B0****
0.033	10.5	9.0	4.0	7.5	0.6	C322E333-30****	0.27	17.5	12.0	6.0	15.0	0.8	C322E274-60****	2.7	32.0	20.0	11.0	27.5	0.8	C322E275-B0****
0.039	10.5	9.0	4.0	7.5	0.6	C322E393-30****	0.33	17.5	12.0	6.0	15.0	0.8	C322E334-60****	3.3	32.0	20.0	11.0	27.5	0.8	C322E335-B0****
0.047	10.5	9.0	4.0	7.5	0.6	C322E473-30****	0.39	17.5	13.5	7.5	15.0	0.8	C322E394-60****	3.9	32.0	22.0	13.0	27.5	0.8	C322E395-B0****
0.056	10.5	9.0	4.0	7.5	0.6	C322E563-30****	0.47	17.5	13.5	7.5	15.0	0.8	C322E474-60****	4.7	32.0	28.0	14.0	27.5	0.8	C322E475-B0****
0.068	10.5	9.0	4.0	7.5	0.6	C322E683-30****	0.56	17.5	13.5	7.5	15.0	0.8	C322E564-60****	5.6	32.0	24.5	15.0	27.5	0.8	C322E565-B0****
0.082	10.5	11.0	5.0	7.5	0.6	C322E823-30****	0.68	17.5	14.5	8.5	15.0	0.8	C322E684-60****	6.8	32.0	33.0	18.0	27.5	0.8	C322E685-B0****
0.10	10.5	11.0	5.0	7.5	0.6	C322E104-30****	0.82	17.5	16.0	10.0	15.0	0.8	C322E824-60****	8.2	32.0	33.0	18.0	27.5	0.8	C322E825-B0****
0.12	10.5	11.0	5.0	7.5	0.6	C322E124-30****	1.0	17.5	16.0	10.0	15.0	0.8	C322E105-60****	10.0	32.0	33.0	18.0	27.5	0.8	C322E106-B0****
0.15	10.5	12.0	6.0	7.5	0.6	C322E154-30****	1.2	17.5	19.0	11.0	15.0	0.8	C322E125-60****	12.0	32.0	37.0	22.0	27.5	0.8	C322E126-B0****
0.18	10.5	12.0	6.0	7.5	0.6	C322E184-30****	0.39	26.5	15.0	6.0	22.5	0.8	C322E394-90****	15.0	32.0	37.0	22.0	27.5	0.8	C322E156-B0****
0.033	13.0	9.0	4.0	10.0	0.6	C322E333-40****	0.47	26.5	15.0	6.0	22.5	0.8	C322E474-90****							
0.039	13.0	9.0	4.0	10.0	0.6	C322E393-40****	0.56	26.5	15.0	6.0	22.5	0.8	C322E564-90****							

Note：1. "-"=capacitance tolerance code, M=±20%,K=±10%,J=±5%,H=±3%,G=±2%

2. "****"=lead form and packing code（refer to table 1）

■ Dimensions (mm)

400Vdc（220Vac）@							400Vdc（220Vac）@							400Vdc（220Vac）@						
C_N (μF)	W	H	T	P	d	Part number	C_N (μF)	W	H	T	P	d	Part number	C_N (μF)	W	H	T	P	d	Part number
0.0039	7.2	7.5	3.5	5.0	0.5	C322G392-20****	0.015	13.0	9.0	4.0	10.0	0.6	C322G153-40****	0.18	26.5	15.0	6.0	22.5	0.8	C322G184-90****
0.0047	7.2	7.5	3.5	5.0	0.5	C322G472-20****	0.018	13.0	9.0	4.0	10.0	0.6	C322G183-40****	0.22	26.5	15.0	6.0	22.5	0.8	C322G224-90****
0.0056	7.2	7.5	3.5	5.0	0.5	C322G562-20****	0.022	13.0	9.0	4.0	10.0	0.6	C322G223-40****	0.27	26.5	15.0	6.0	22.5	0.8	C322G274-90****
0.0068	7.2	7.5	3.5	5.0	0.5	C322G682-20****	0.027	13.0	9.0	4.0	10.0	0.6	C322G273-40****	0.33	26.5	15.0	6.0	22.5	0.8	C322G334-90****
0.0082	7.2	7.5	3.5	5.0	0.5	C322G822-20****	0.033	13.0	9.0	4.0	10.0	0.6	C322G333-40****	0.39	26.5	16.0	7.0	22.5	0.8	C322G394-90****
0.010	7.2	7.5	3.5	5.0	0.5	C322G103-20****	0.039	13.0	9.0	4.0	10.0	0.6	C322G393-40****	0.47	26.5	16.0	7.0	22.5	0.8	C322G474-90****
0.012	7.2	7.5	3.5	5.0	0.5	C322G123-20****	0.047	13.0	11.0	5.0	10.0	0.6	C322G473-40****	0.56	26.5	17.0	8.5	22.5	0.8	C322G564-90****
0.015	7.2	9.5	4.5	5.0	0.6	C322G153-20****	0.056	13.0	11.0	5.0	10.0	0.6	C322G563-40****	0.68	26.5	17.0	8.5	22.5	0.8	C322G684-90****
0.018	7.2	9.5	4.5	5.0	0.6	C322G183-20****	0.068	13.0	11.0	5.0	10.0	0.6	C322G683-40****	0.82	26.5	18.5	10.0	22.5	0.8	C322G824-90****
0.022	7.2	9.5	4.5	5.0	0.6	C322G223-20****	0.082	13.0	12.0	6.0	10.0	0.6	C322G823-40****	1.0	26.5	20.0	11.0	22.5	0.8	C322G105-90****
0.027	7.2	10.0	5.0	5.0	0.6	C322G273-20****	0.10	13.0	12.0	6.0	10.0	0.6	C322G104-40****	1.2	26.5	22.0	12.0	22.5	0.8	C322G125-90****
0.033	7.2	11.0	6.0	5.0	0.6	C322G333-20****	0.068	17.5	11.0	5.0	15.0	0.8	C322G683-60****	1.5	26.5	22.0	12.0	22.5	0.8	C322G155-90****
0.039	7.2	11.0	6.0	5.0	0.6	C322G393-20****	0.082	17.5	11.0	5.0	15.0	0.8	C322G823-60****	0.56	32.0	18.0	9.0	27.5	0.8	C322G564-B0****
0.047	7.2	11.0	6.0	5.0	0.6	C322G473-20****	0.10	17.5	11.0	5.0	15.0	0.8	C322G104-60****	0.68	32.0	18.0	9.0	27.5	0.8	C322G684-B0****
0.010	10.5	9.0	4.0	7.5	0.6	C322G103-30****	0.12	17.5	11.0	5.0	15.0	0.8	C322G124-60****	0.82	32.0	18.0	9.0	27.5	0.8	C322G824-B0****
0.012	10.5	9.0	4.0	7.5	0.6	C322G123-30****	0.15	17.5	12.0	6.0	15.0	0.8	C322G154-60****	1.0	32.0	18.0	9.0	27.5	0.8	C322G105-B0****
0.015	10.5	9.0	4.0	7.5	0.6	C322G153-30****	0.18	17.5	12.0	6.0	15.0	0.8	C322G184-60****	1.2	32.0	20.0	11.0	27.5	0.8	C322G125-B0****
0.018	10.5	9.0	4.0	7.5	0.6	C322G183-30****	0.22	17.5	13.5	7.5	15.0	0.8	C322G224-60****	1.5	32.0	20.0	11.0	27.5	0.8	C322G155-B0****
0.022	10.5	9.0	4.0	7.5	0.6	C322G223-30****	0.27	17.5	13.5	7.5	15.0	0.8	C322G274-60****	1.8	32.0	22.0	13.0	27.5	0.8	C322G185-B0****
0.027	10.5	9.0	4.0	7.5	0.6	C322G273-30****	0.33	17.5	14.5	8.5	15.0	0.8	C322G334-60****	2.2	32.0	24.5	15.0	27.5	0.8	C322G225-B0****
0.033	10.5	11.0	5.0	7.5	0.6	C322G333-30****	0.39	17.5	16.0	10.0	15.0	0.8	C322G394-60****	2.7	32.0	28.0	14.0	27.5	0.8	C322G275-B0****
0.039	10.5	11.0	5.0	7.5	0.6	C322G393-30****	0.47	17.5	16.0	10.0	15.0	0.8	C322G474-60****	3.3	32.0	33.0	18.0	27.5	0.8	C322G335-B0****
0.047	10.5	11.0	5.0	7.5	0.6	C322G473-30****	0.56	17.5	19.0	11.0	15.0	0.8	C322G564-60****	3.9	32.0	33.0	18.0	27.5	0.8	C322G395-B0****
0.056	10.5	12.0	6.0	7.5	0.6	C322G563-30****	0.68	17.5	19.0	11.0	15.0	0.8	C322G684-60****	4.7	32.0	37.0	22.0	27.5	0.8	C322G475-B0****
0.068	10.5	12.0	6.0	7.5	0.6	C322G683-30****								5.6	32.0	37.0	22.0	27.5	0.8	C322G565-B0****

Note：1. "-"=capacitance tolerance code, M=±20%,K=±10%,J=±5%,H=±3%,G=±2%

2. "****"=lead form and packing code（refer to table 1）

3. "@" Not suitable for across-the-line application. Pls refer to Interference Suppression Capacitors.

■ Dimensions (mm)

630Vdc（250Vac）@							630Vdc（250Vac）@							630Vdc（250Vac）@						
C_N (μF)	W	H	T	P	d	Part number	C_N (μF)	W	H	T	P	d	Part number	C_N (μF)	W	H	T	P	d	Part number
0.0010	7.2	7.5	3.5	5.0	0.5	C322J102-20****	0.027	10.5	12.0	6.0	7.5	0.6	C322J273-30****	0.12	17.5	13.5	7.5	15.0	0.8	C322J124-60****
0.0012	7.2	7.5	3.5	5.0	0.5	C322J122-20****	0.033	10.5	12.0	6.0	7.5	0.6	C322J333-30****	0.15	17.5	13.5	7.5	15.0	0.8	C322J154-60****
0.0015	7.2	7.5	3.5	5.0	0.5	C322J152-20****	0.0010	13.0	9.0	4.0	10.0	0.6	C322J102-40****	0.18	17.5	14.5	8.5	15.0	0.8	C322J184-60****
0.0018	7.2	7.5	3.5	5.0	0.5	C322J182-20****	0.0012	13.0	9.0	4.0	10.0	0.6	C322J122-40****	0.22	17.5	16.0	10.0	15.0	0.8	C322J224-60****
0.0022	7.2	7.5	3.5	5.0	0.5	C322J222-20****	0.0015	13.0	9.0	4.0	10.0	0.6	C322J152-40****	0.27	17.5	19.0	11.0	15.0	0.8	C322J274-60****
0.0027	7.2	7.5	3.5	5.0	0.5	C322J272-20****	0.0018	13.0	9.0	4.0	10.0	0.6	C322J182-40****	0.33	17.5	19.0	11.0	15.0	0.8	C322J334-60****
0.0033	7.2	7.5	3.5	5.0	0.5	C322J332-20****	0.0022	13.0	9.0	4.0	10.0	0.6	C322J222-40****	0.082	26.5	15.0	6.0	22.5	0.8	C322J823-90****
0.0039	7.2	9.5	4.5	5.0	0.6	C322J392-20****	0.0027	13.0	9.0	4.0	10.0	0.6	C322J272-40****	0.10	26.5	15.0	6.0	22.5	0.8	C322J104-90****
0.0047	7.2	9.5	4.5	5.0	0.6	C322J472-20****	0.0033	13.0	9.0	4.0	10.0	0.6	C322J332-40****	0.12	26.5	15.0	6.0	22.5	0.8	C322J124-90****
0.0056	7.2	10.0	5.0	5.0	0.6	C322J562-20****	0.0039	13.0	9.0	4.0	10.0	0.6	C322J392-40****	0.15	26.5	15.0	6.0	22.5	0.8	C322J154-90****
0.0068	7.2	10.0	5.0	5.0	0.6	C322J682-20****	0.0047	13.0	9.0	4.0	10.0	0.6	C322J472-40****	0.18	26.5	15.0	6.0	22.5	0.8	C322J184-90****
0.0082	7.2	11.0	6.0	5.0	0.6	C322J822-20****	0.0056	13.0	9.0	4.0	10.0	0.6	C322J562-40****	0.22	26.5	16.0	7.0	22.5	0.8	C322J224-90****
0.010	7.2	11.0	6.0	5.0	0.6	C322J103-20****	0.0068	13.0	9.0	4.0	10.0	0.6	C322J682-40****	0.27	26.5	17.0	8.5	22.5	0.8	C322J274-90****
0.012	7.2	11.0	6.0	5.0	0.6	C322J123-20****	0.0082	13.0	9.0	4.0	10.0	0.6	C322J822-40****	0.33	26.5	17.0	8.5	22.5	0.8	C322J334-90****
0.0010	10.5	9.0	4.0	7.5	0.6	C322J102-30****	0.010	13.0	9.0	4.0	10.0	0.6	C322J103-40****	0.39	26.5	18.5	10.0	22.5	0.8	C322J394-90****
0.0012	10.5	9.0	4.0	7.5	0.6	C322J122-30****	0.012	13.0	9.0	4.0	10.0	0.6	C322J123-40****	0.47	26.5	18.5	10.0	22.5	0.8	C322J474-90****
0.0015	10.5	9.0	4.0	7.5	0.6	C322J152-30****	0.015	13.0	9.0	4.0	10.0	0.6	C322J153-40****	0.56	26.5	20.0	11.0	22.5	0.8	C322J564-90****
0.0018	10.5	9.0	4.0	7.5	0.6	C322J182-30****	0.018	13.0	9.0	4.0	10.0	0.6	C322J183-40****	0.68	26.5	22.0	12.0	22.5	0.8	C322J684-90****
0.0022	10.5	9.0	4.0	7.5	0.6	C322J222-30****	0.022	13.0	11.0	5.0	10.0	0.6	C322J223-40****	0.33	32.0	18.0	9.0	27.5	0.8	C322J334-B0****
0.0027	10.5	9.0	4.0	7.5	0.6	C322J272-30****	0.027	13.0	11.0	5.0	10.0	0.6	C322J273-40****	0.39	32.0	18.0	9.0	27.5	0.8	C322J394-B0****
0.0033	10.5	9.0	4.0	7.5	0.6	C322J332-30****	0.033	13.0	11.0	5.0	10.0	0.6	C322J333-40****	0.47	32.0	18.0	9.0	27.5	0.8	C322J474-B0****
0.0039	10.5	9.0	4.0	7.5	0.6	C322J392-30****	0.039	13.0	12.0	6.0	10.0	0.6	C322J393-40****	0.56	32.0	20.0	11.0	27.5	0.8	C322J564-B0****
0.0047	10.5	9.0	4.0	7.5	0.6	C322J472-30****	0.047	13.0	12.0	6.0	10.0	0.6	C322J473-40****	0.68	32.0	20.0	11.0	27.5	0.8	C322J684-B0****
0.0056	10.5	9.0	4.0	7.5	0.6	C322J562-30****	0.027	17.5	11.0	5.0	15.0	0.8	C322J273-60****	0.82	32.0	20.0	11.0	27.5	0.8	C322J824-B0****
0.0068	10.5	9.0	4.0	7.5	0.6	C322J682-30****	0.033	17.5	11.0	5.0	15.0	0.8	C322J333-60****	1.0	32.0	22.0	13.0	27.5	0.8	C322J105-B0****
0.0082	10.5	9.0	4.0	7.5	0.6	C322J822-30****	0.039	17.5	11.0	5.0	15.0	0.8	C322J393-60****	1.2	32.0	24.5	15.0	27.5	0.8	C322J125-B0****
0.010	10.5	9.0	4.0	7.5	0.6	C322J103-30****	0.047	17.5	11.0	5.0	15.0	0.8	C322J473-60****	1.5	32.0	28.0	14.0	27.5	0.8	C322J155-B0****
0.012	10.5	9.0	4.0	7.5	0.6	C322J123-30****	0.056	17.5	11.0	5.0	15.0	0.8	C322J563-60****	1.8	32.0	33.0	18.0	27.5	0.8	C322J185-B0****
0.015	10.5	11.0	5.0	7.5	0.6	C322J153-30****	0.068	17.5	12.0	6.0	15.0	0.8	C322J683-60****	2.2	32.0	33.0	18.0	27.5	0.8	C322J225-B0****
0.018	10.5	11.0	5.0	7.5	0.6	C322J183-30****	0.082	17.5	12.0	6.0	15.0	0.8	C322J823-60****	2.7	32.0	37.0	22.0	27.5	0.8	C322J275-B0****
0.022	10.5	11.0	5.0	7.5	0.6	C322J223-30****	0.10	17.5	13.5	7.5	15.0	0.8	C322J104-60****	3.3	32.0	37.0	22.0	27.5	0.8	C322J335-B0****

Note：1. "-"=capacitance tolerance code, M=±20%,K=±10%,J=±5%

2. "****"=lead form and packing code（refer to table 1）

3. "@" Not suitable for across-the-line applications. Pls refer to Interference Suppression Capacitors.

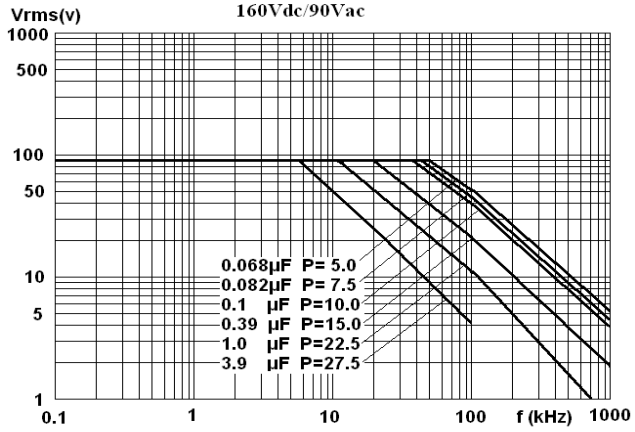
■ Dimensions (mm)

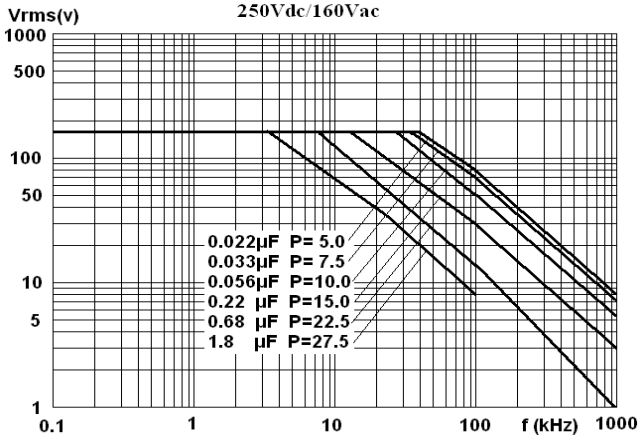
1 000Vdc(400Vac)							1 600Vdc(600Vac)							2 000Vdc(700Vac)						
C_N (μF)	W	H	T	P	d	Part number	C_N (μF)	W	H	T	P	d	Part number	C_N (μF)	W	H	T	P	d	Part number
0.0010	13.0	9.0	4.0	10.0	0.6	C323A102-40****	0.00056	17.5	11.0	5.0	15.0	0.8	C323C561-60****	0.00056	17.5	11.0	5.0	15.0	0.8	C323D561-60****
0.0012	13.0	9.0	4.0	10.0	0.6	C323A122-40****	0.00062	17.5	11.0	5.0	15.0	0.8	C323C621-60****	0.00062	17.5	11.0	5.0	15.0	0.8	C323D621-60****
0.0015	13.0	9.0	4.0	10.0	0.6	C323A152-40****	0.00068	17.5	11.0	5.0	15.0	0.8	C323C681-60****	0.00068	17.5	11.0	5.0	15.0	0.8	C323D681-60****
0.0018	13.0	9.0	4.0	10.0	0.6	C323A182-40****	0.00082	17.5	11.0	5.0	15.0	0.8	C323C821-60****	0.00082	17.5	11.0	5.0	15.0	0.8	C323D821-60****
0.0022	13.0	9.0	4.0	10.0	0.6	C323A222-40****	0.0010	17.5	11.0	5.0	15.0	0.8	C323C102-60****	0.0010	17.5	11.0	5.0	15.0	0.8	C323D102-60****
0.0027	13.0	9.0	4.0	10.0	0.6	C323A272-40****	0.0012	17.5	11.0	5.0	15.0	0.8	C323C122-60****	0.0012	17.5	11.0	5.0	15.0	0.8	C323D122-60****
0.0033	13.0	9.0	4.0	10.0	0.6	C323A332-40****	0.0015	17.5	11.0	5.0	15.0	0.8	C323C152-60****	0.0015	17.5	11.0	5.0	15.0	0.8	C323D152-60****
0.0039	13.0	9.0	4.0	10.0	0.6	C323A392-40****	0.0018	17.5	11.0	5.0	15.0	0.8	C323C182-60****	0.0018	17.5	11.0	5.0	15.0	0.8	C323D182-60****
0.0047	13.0	11.0	5.0	10.0	0.6	C323A472-40****	0.0022	17.5	11.0	5.0	15.0	0.8	C323C222-60****	0.0022	17.5	11.0	5.0	15.0	0.8	C323D222-60****
0.0056	13.0	11.0	5.0	10.0	0.6	C323A562-40****	0.0027	17.5	11.0	5.0	15.0	0.8	C323C272-60****	0.0027	17.5	11.0	5.0	15.0	0.8	C323D272-60****
0.0068	13.0	11.0	5.0	10.0	0.6	C323A682-40****	0.0033	17.5	11.0	5.0	15.0	0.8	C323C332-60****	0.0033	17.5	11.0	5.0	15.0	0.8	C323D332-60****
0.0082	13.0	12.0	6.0	10.0	0.6	C323A822-40****	0.0039	17.5	11.0	5.0	15.0	0.8	C323C392-60****	0.0039	17.5	11.0	5.0	15.0	0.8	C323D392-60****
0.010	13.0	12.0	6.0	10.0	0.6	C323A103-40****	0.0047	17.5	11.0	5.0	15.0	0.8	C323C472-60****	0.0047	17.5	11.0	5.0	15.0	0.8	C323D472-60****
0.0022	17.5	11.0	5.0	15.0	0.8	C323A222-60****	0.0056	17.5	11.0	5.0	15.0	0.8	C323C562-60****	0.0056	17.5	12.0	6.0	15.0	0.8	C323D562-60****
0.0027	17.5	11.0	5.0	15.0	0.8	C323A272-60****	0.0068	17.5	11.0	5.0	15.0	0.8	C323C682-60****	0.0068	17.5	12.0	6.0	15.0	0.8	C323D682-60****
0.0033	17.5	11.0	5.0	15.0	0.8	C323A332-60****	0.0082	17.5	12.0	6.0	15.0	0.8	C323C822-60****	0.0082	17.5	13.5	7.5	15.0	0.8	C323D822-60****
0.0039	17.5	11.0	5.0	15.0	0.8	C323A392-60****	0.010	17.5	12.0	6.0	15.0	0.8	C323C103-60****	0.010	17.5	13.5	7.5	15.0	0.8	C323D103-60****
0.0047	17.5	11.0	5.0	15.0	0.8	C323A472-60****	0.012	17.5	12.0	6.0	15.0	0.8	C323C123-60****	0.012	17.5	14.5	8.5	15.0	0.8	C323D123-60****
0.0056	17.5	11.0	5.0	15.0	0.8	C323A562-60****	0.015	17.5	13.5	7.5	15.0	0.8	C323C153-60****	0.015	17.5	14.5	8.5	15.0	0.8	C323D153-60****
0.0068	17.5	11.0	5.0	15.0	0.8	C323A682-60****	0.018	17.5	13.5	7.5	15.0	0.8	C323C183-60****	0.018	17.5	16.0	10.0	15.0	0.8	C323D183-60****
0.0082	17.5	11.0	5.0	15.0	0.8	C323A822-60****	0.022	17.5	14.5	8.5	15.0	0.8	C323C223-60****	0.022	17.5	19.0	11.0	15.0	0.8	C323D223-60****
0.010	17.5	11.0	5.0	15.0	0.8	C323A103-60****	0.027	17.5	16.0	10.0	15.0	0.8	C323C273-60****	0.0068	26.5	15.0	6.0	22.5	0.8	C323D682-90****
0.012	17.5	11.0	5.0	15.0	0.8	C323A123-60****	0.033	17.5	16.0	10.0	15.0	0.8	C323C333-60****	0.0082	26.5	15.0	6.0	22.5	0.8	C323D822-90****
0.015	17.5	12.0	6.0	15.0	0.8	C323A153-60****	0.039	17.5	19.0	11.0	15.0	0.8	C323C393-60****	0.010	26.5	15.0	6.0	22.5	0.8	C323D103-90****
0.018	17.5	12.0	6.0	15.0	0.8	C323A183-60****	0.047	17.5	19.0	11.0	15.0	0.8	C323C473-60****	0.012	26.5	15.0	6.0	22.5	0.8	C323D123-90****
0.022	17.5	13.5	7.5	15.0	0.8	C323A223-60****	0.015	26.5	15.0	6.0	22.5	0.8	C323C153-90****	0.015	26.5	15.0	6.0	22.5	0.8	C323D153-90****
0.027	17.5	13.5	7.5	15.0	0.8	C323A273-60****	0.018	26.5	15.0	6.0	22.5	0.8	C323C183-90****	0.018	26.5	16.0	7.0	22.5	0.8	C323D183-90****
0.033	17.5	14.5	8.5	15.0	0.8	C323A333-60****	0.022	26.5	15.0	6.0	22.5	0.8	C323C223-90****	0.022	26.5	17.0	8.5	22.5	0.8	C323D223-90****
0.039	17.5	16.0	10.0	15.0	0.8	C323A393-60****	0.027	26.5	16.0	7.0	22.5	0.8	C323C273-90****	0.027	26.5	17.0	8.5	22.5	0.8	C323D273-90****
0.047	17.5	16.0	10.0	15.0	0.8	C323A473-60****	0.033	26.5	16.0	7.0	22.5	0.8	C323C333-90****	0.033	26.5	18.5	10.0	22.5	0.8	C323D333-90****
0.056	17.5	19.0	11.0	15.0	0.8	C323A563-60****	0.039	26.5	17.0	8.5	22.5	0.8	C323C393-90****	0.039	26.5	18.5	10.0	22.5	0.8	C323D393-90****
0.068	17.5	19.0	11.0	15.0	0.8	C323A683-60****	0.047	26.5	18.5	10.0	22.5	0.8	C323C473-90****	0.047	26.5	22.0	12.0	22.5	0.8	C323D473-90****
0.018	26.5	15.0	6.0	22.5	0.8	C323A183-90****	0.056	26.5	18.5	10.0	22.5	0.8	C323C563-90****	0.056	26.5	22.0	12.0	22.5	0.8	C323D563-90****
0.022	26.5	15.0	6.0	22.5	0.8	C323A223-90****	0.068	26.5	22.0	12.0	22.5	0.8	C323C683-90****							
0.027	26.5	15.0	6.0	22.5	0.8	C323A273-90****	0.082	26.5	22.0	12.0	22.5	0.8	C323C823-90****							
0.033	26.5	15.0	6.0	22.5	0.8	C323A333-90****	0.10	26.5	22.0	12.0	22.5	0.8	C323C104-90****							
0.039	26.5	15.0	6.0	22.5	0.8	C323A393-90****														
0.047	26.5	16.0	7.0	22.5	0.8	C323A473-90****														
0.056	26.5	16.0	7.0	22.5	0.8	C323A563-90****														
0.068	26.5	17.0	8.5	22.5	0.8	C323A683-90****														
0.082	26.5	17.0	8.5	22.5	0.8	C323A823-90****														
0.10	26.5	18.5	10.0	22.5	0.8	C323A104-90****														
0.12	26.5	22.0	12.0	22.5	0.8	C323A124-90****														
0.15	26.5	22.0	12.0	22.5	0.8	C323A154-90****														

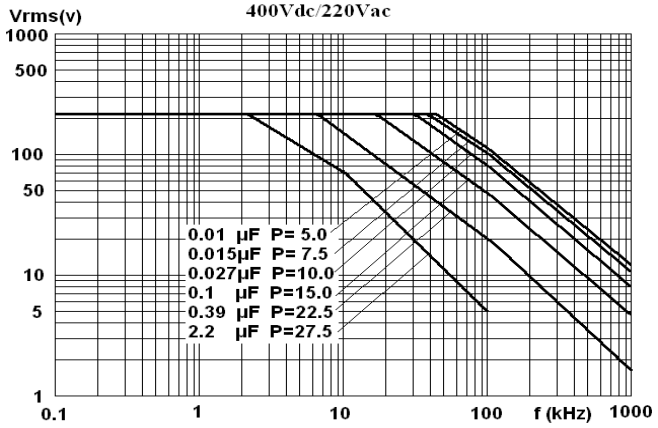
Note: 1. "-"=capacitance tolerance code, M=±20%,K=±10%,J=±5%, H=±3%,G=±2%

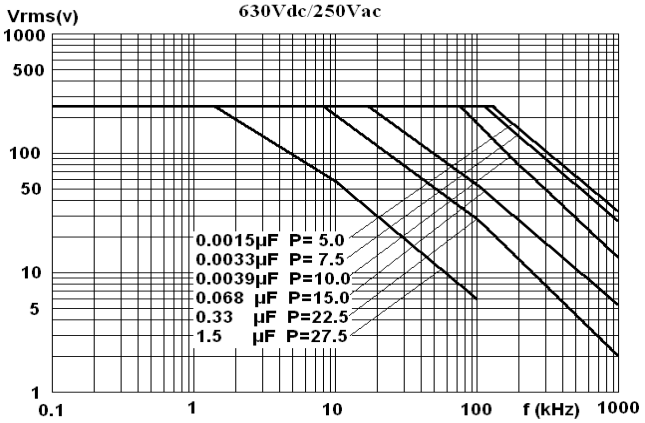
2. "****"=lead form and packaging code (refer to table 1).

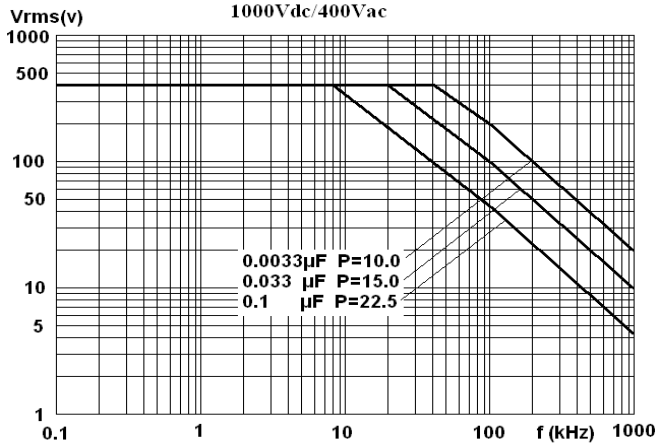
■ MAX. VOLTAGE(Vr.m.s) VERSUS FREQUENCY

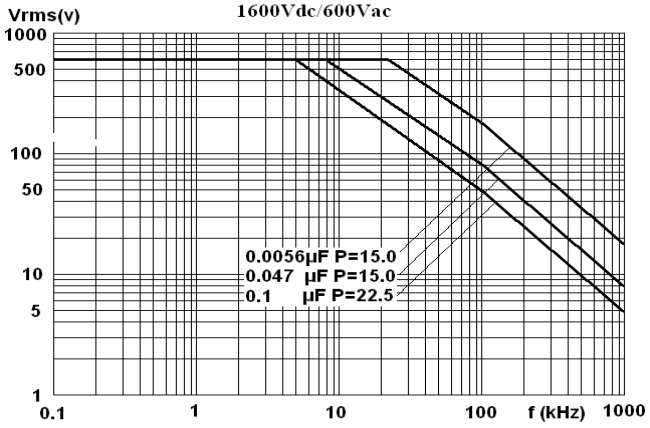


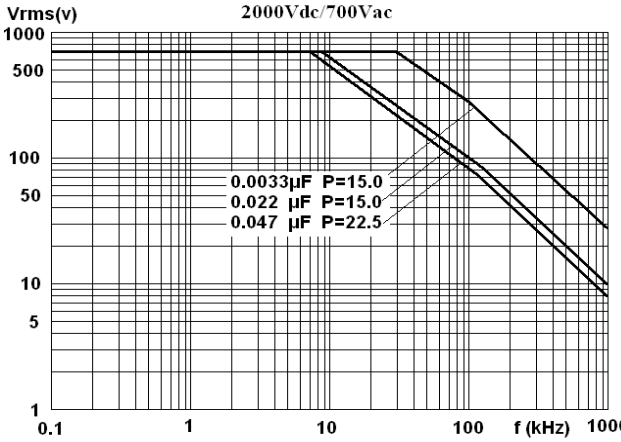






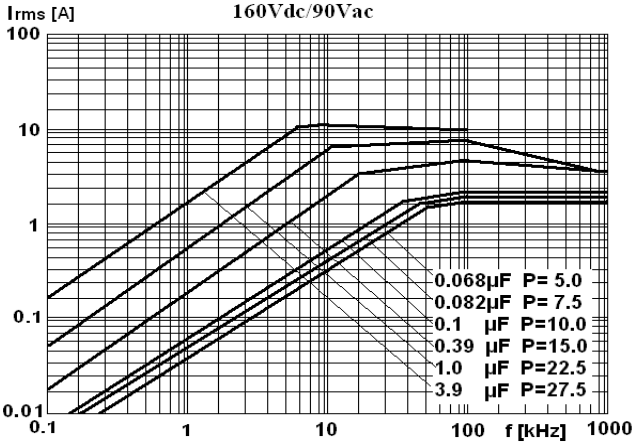


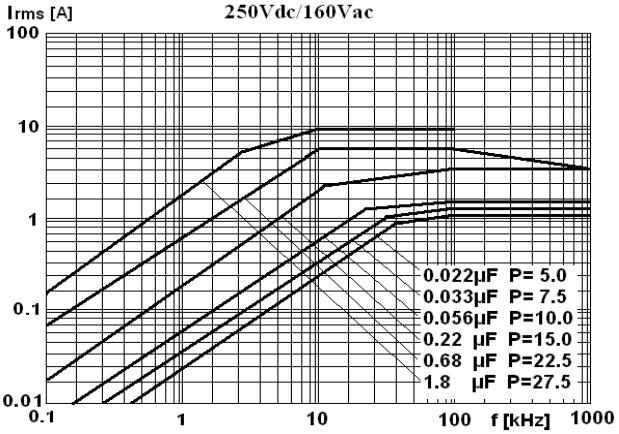


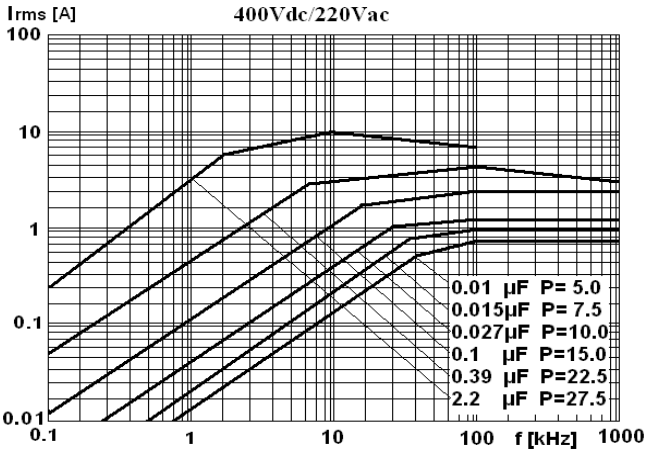


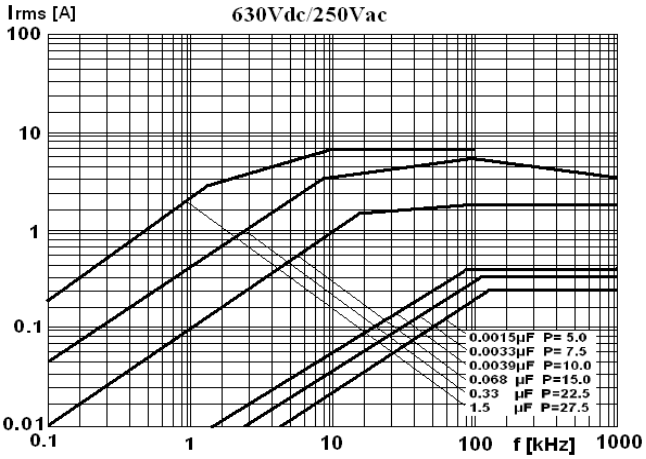
Note: sinusoidal wave-form, environment temperature≤85℃,internal temperature rise ▵ T=10℃, p (pitch) in mm..

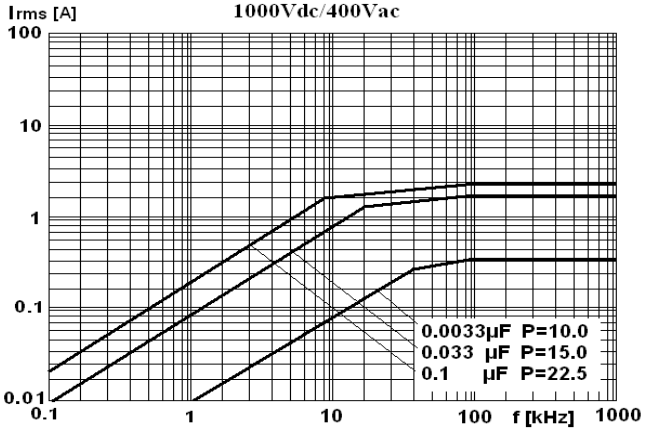
■ MAX. CURRENT(Ir.m.s) VERSUS FREQUENCY

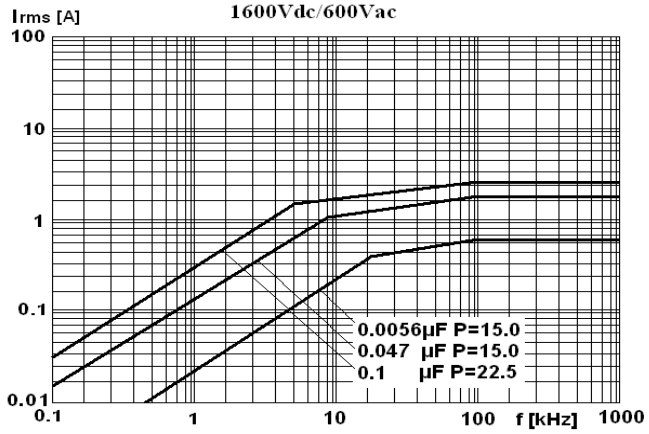


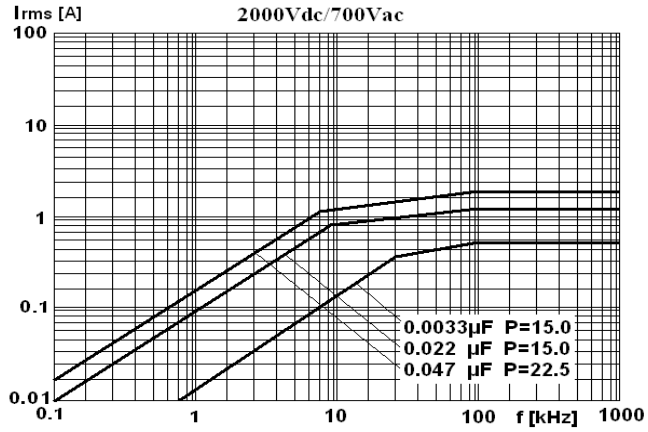












Note: sinusoidal wave-form, environment temperature≤85℃,internal temperature rise ▵ T=10℃, p (pitch) in mm.

■ Test Method And Performance

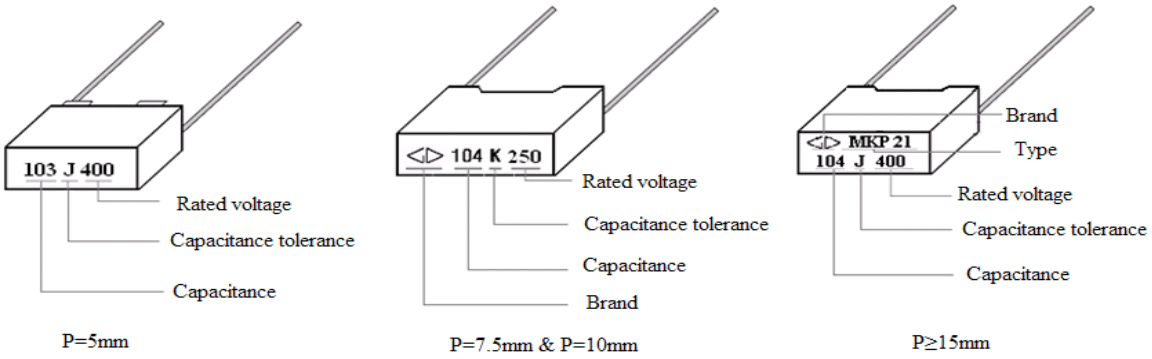
No.	Item		Performance	Test method(IEC 60384-16)
1	Solderability		Good quality of tinning	Solder temperature:245˚C±5˚C Immersion time: 2.0s±0.5s
2	Initial measurement		Capacitance Tgδ:1kHz，C>1.0μF 10kHz，C≤1.0μF	
	Terminal Strength (straight lead)		There shall be no visible damage	Tension: 0.6≤ϕd≤0.8mm，10N ϕd=1.0mm，20N Bend: 0.6≤ϕd≤0.8mm，5N ϕd=1.0mm，10N The terminals shall be bent 2 times in each direction.
	Resistance to solder heat		There shall be no visible damage	Solder temperature:260˚C±5˚C Immersion time: 10s±1s
	Final measurement		ΔC/C ≤±3%(relative to the initial value) Increase of tgδ: ≤0.004 (10kHz,C≤1.0μF) ≤0.004 (1kHz,C>1.0μF)	
3	Initial measurement		Capacitance Tgδ:1kHz，C>1.0μF 10kHz，C≤1.0μF	
	Rapid change of tempe rature		There shall be no evidence of deterioration.	θ_A=-55˚C, θ_B =+105˚C 5 cycles, Duration: t=30min
3	Vibration(straight lead)		There shall be no evidence of deterioration.	Amplitude 0.75mm or acceleration 98m/s^2 (whichever is the smaller severity), f: 10Hz to 500Hz.Three directions, 2h for each direction, total 6h.
	Bump(straight lead)		There shall be no evidence of deterioration.	4 000 times, Acceleration: 390m/s^2,Pulse duration, 6ms
	Final measurement		ΔC/C ≤±3%(relative to the initial value) Increase of tgδ: ≤0.004 (10kHz, C≤1.0μF) ≤0.004 (1kHz, C>1.0μF) IR: ≥ 50% of the rated value	
4	climate sequence	Initial measurement	Capacitance Tgδ:1kHz，C>1.0μF 10kHz，C≤1.0μF	
		Dry heat		+105℃，16h
		Damp heat, Cyclic		Test Db, Severity: b, the first cycle
		Cold		-55℃，2h
		Low air pressure	There shall be no permanent breakd own, flashover or other harmful def ormation when applying U_R at the l ast 1 minute.	15℃～35℃，8.5kPa，1h,

No.	Item		Performance	Test method(IEC 60384-16)
4	climate sequence (continue)	Damp heat, cyclic other		Test Db, Severity b, the other cycles, Applying U_R for 1 minute after the test finished.
		Final measurement	There shall be no evidence of deterioration and the marking shall be legible. ΔC/C ≤±5%(relative to the initial value) Increase of tgδ: ≤0.005 (10kHz, C≤1.0μF) ≤0.005 (1kHz, C>1.0μF) IR: ≥ 50% of the rated value	
5	Damp heat steady state		There shall be no evidence of deterioration and the marking shall be legible. ΔC/C ≤ ±5%(relative to the initial value) Increase of tgδ ≤0.002(1kHz) IR: ≥50% of the rated value	Temperature:40˚C ±2˚C Humidity: 93^{+2}_{-3} %RH Duration: 56days
6	Endurance		ΔC/C ≤±5%(relative to the initial value) Increase of tgδ: ≤0.004 (10kHz, C≤1.0μF) ≤0.004 (1kHz, C>1.0μF) IR: ≥ 50% of the rated value	Temperature: +85℃ Voltage: $1.25 \times U_R$ Duration: 1 000h
7	Temperature characteristic		Measuring capacitance at test point b, d, f: Characteristic at lower category temperature -40˚C: $0 \le (C_b-C_d)/C_d \le +3\%$ Characteristic at upper category temperature +85˚C: $-3.25\% \le (C_f-C_d)/C_d \le 0$	Static method: The capacitors should be kept at the following temperature in turn: a.(+20±2) ˚C， b.(–40±2) ˚C，d.(20±2) ˚C，f.(+85±2) ˚C，g.(+20±2) ˚C
8	Charging and discharging		ΔC/C ≤±5%(relative to the initial value) Increase of tgδ: ≤0.005 (10kHz, C≤1.0μF) ≤0.005 (1kHz, C>1.0μF) IR: ≥ 50% of the rated value	Times: 10 000 Duration of charging: 0.5s Duration of discharging: 0.5s Charging voltage: rated voltage U_R Charging resistance: $220/C_N(\Omega)$ Discharging resistance: $U_R \div C_N \div dv/dt(\Omega)$ C_N: rated capacitance (μF) dv/dt value: see P2

■ Quality ensuring test (before shipment):

Inspection item（each batch）	Inspection level （GB 2828）	
	IL	AQL
Appearance inspection	II	1.5%
Dimensions		
Capacitance	II	0.65%
Tangent of the loss angle		
Dielectric strength		
Insulation resistance		
Solderability	S-3	2.5%

■ Marking（example）



P=5mm　　P=7.5mm & P=10mm　　P≥15mm

■ Taping specification for box-type capacitors

▲ Outline Drawing

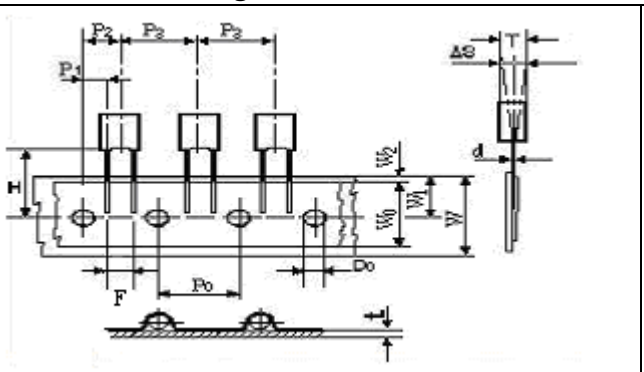


Fig.1 P=5.0/7.5mm

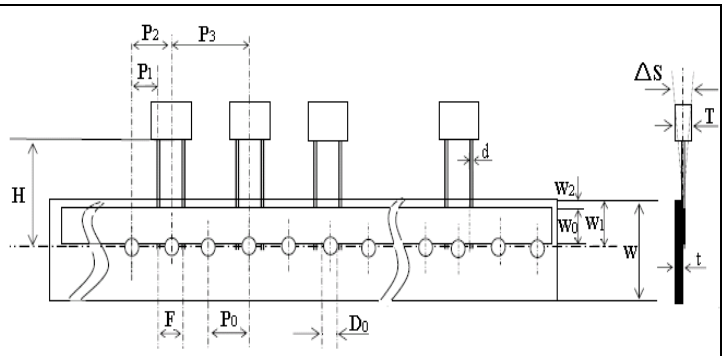


Fig.2 P=10.0/15.0mm

▲ Taping Dimensions(mm)

Technology index title	Code	Dimensions				
		P=5.0	P=7.5	P=10.0	P=15.0	Tolerance
Taping type	—	Fig 1	Fig 1	Fig2	Fig 2	——
Part number Digit12-15	Ammo-pack	A201	A301	A405	A605	
Taping pitch	P_3	12.7	12.7	25.4	25.4	±1.0
Feed hole pitch	P_0	12.7	12.7	12.7	12.7	±0.3
Center of wire	P_1	3.85	2.6	7.7	5.2	±0.7
Center of body	P_2	6.35	6.35	12.7	12.7	±1.3
Pitch of taping wire	F**	5.0	7.5	10.0	15.0	+0.6 -0.1
Component alignment	△S	0	0	0	0	±2.0
Height of component from tape center	H***	18.5	18.5	18.5	18.5	±0.5
Carrier tape width	W	18.0	18.0	18.0	18.0	+1.0 -0.5
Hold down tape width	W_0	6min	10min	10min	10min	——
Hole position	W_1	9.0	9.0	9.0	9.0	±0.5
Hold down tape sition	W_2	3max	3max	3max	3max	——
Feed hole dia.	D_0	4.0	4.0	4.0	4.0	±0.2
Tape thickness	t	0.7	0.7	0.7	0.7	±0.2

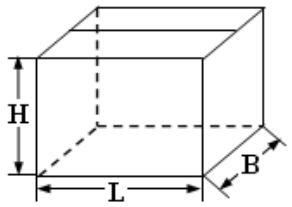
Note: * P_0=15mm is also available;

**F can be other lead spacing;

***H=16.5mm is available;

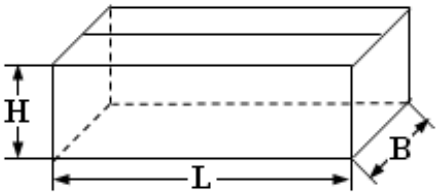
■ Packing box sizes(mm)(example)

1. Out packing box for bulk



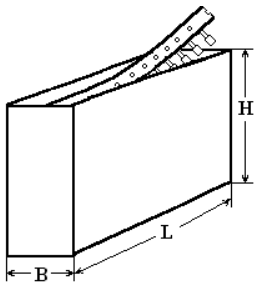
L:375±5
B:375±5
H:265±5

2. Inner packing box for bulk



L:355±3
B:175±3
H:118±3

3. Box sizes for Ammo-pack



L:350±3
B:50±3
H:260±3

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