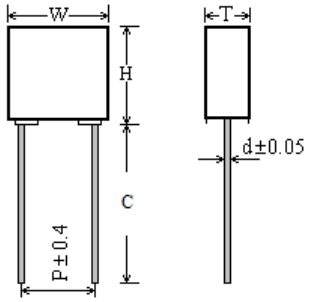
Box-type metallized polyester film capacitor (Stacked version)

■ Outline Drawing



■ Features

- Metallized polyester film, stacked construction
- Plastic case（UL94 V-0），Epoxy resin sealing
- High dv/dt ability

■Typical Applications:

- ●By-passing, blocking, coupling, decoupling,
- ●Pulse logic, timing, oscillator circuits.
- ●Inverter for LCD monitors, automotive DC motor suppression

■Specifications

Reference Standard	GB 7332(IEC 60384-2)		
Climatic Category	55/105/56		
Rated temperature	85℃		
Operating temperature	-55℃~105℃ (+85℃ to +105℃: decreasing factor 1.25% per ℃ for VR(dc))		
Rated Voltage	50/63V, 100V, 250V, 400V, 500V, 630V,700V		
Capacitance Range	0.0010μF ~ 2.2μF		
Capacitance Tolerance	±5%(J), ±10%(K), ±20%(M)		
Voltage Proof	Pattern I:1.6U_R(5s), Pattern II:1.4U_R(5s)		
Dissipation Factor	Frequency	$C_R \leq 0.1\mu F$	$C_R > 0.1\mu F$
	1kHz	≤1.0%	≤1.0%
	10kHz	≤1.5%	≤1.5%
	100kHz	≤3.0%	-
Insulation Resistance	U_R>100V	≥3 0000MΩ, C_R≤0.33μF ≥10 000s, C_R>0.33μF	(20℃,100V,1min)
	U_R≤100V	≥15 000MΩ, C_R≤0.33μF ≥5 000s, C_R>0.33μF	(20℃,10V,1min)

Part number system

The 18 digits part number is formed as follow:

C24 Pattern I (High performance)

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
C	2	4							2	0							

C24 Pattern II (Reduced size)

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
C	2	4							2	S							

Digit 1 to 3 Series code of film capacitor

C24=CL23B

Digit 4 to 5 DC rated voltage

1H=50V 1J=63V 2A=100V 2E=250V

2G=400V 2H=500V 2J=630V 1V=700V

Digit 6 to 8 Rated capacitance value

For example : $103=10\times10^3pF=0.01uF$

Digit 9 Capacitance tolerance

J=±5%,K=±10%, M=±20%

Digit 10 Lead pitch

2=5.0

Digit 11 Internal use

S=pattern II

Digit 12 to 15 Lead form and packaging code

Digit 16 to 18 Internal use

Table 1 lead dimensions and packaging code

Digit 12		Digit 13		Digit 14		Digit 15	
code	explanation	code	explanation	code	explanation	code	explanation
A	ammo-pack	2	F=5.0mm	0	straight	1	each cap. among two consecutive holes P3=12.7mm,H=18.5mm (For pitch=5.0mm)
C	straight lead "C"in the figure above	code	explanation			0	Length tolerance ±0.5mm Or standard length
		00	standard lead length (18mm~22mm)				
		45	lead length 4.5mm				

■ **Dimensions(mm)**

Capacitor Thickness: T	≤3.5	>3.5
Dimension Tolerance (W, H, T)	±0.2	±0.4

Pattern II (Reduced size)

50Vdc (30Vac)/63Vdc (40Vac) #

C (μF)	W	H	T	P	d	产品代码
0.15	7.2	6.5	2.5	5.0	0.5	C241J154-2S****+++
0.18	7.2	6.5	2.5	5.0	0.5	C241J184-2S****+++
0.22	7.2	6.5	2.5	5.0	0.5	C241J224-2S****+++
0.27	7.2	6.5	2.5	5.0	0.5	C241J274-2S****+++
0.33	7.2	7.5	3.5	5.0	0.5	C241J334-2S****+++
0.39	7.2	7.5	3.5	5.0	0.5	C241J394-2S****+++
0.47	7.2	7.5	3.5	5.0	0.5	C241J474-2S****+++
0.56	7.2	9.5	4.5	5.0	0.6	C241J564-2S****+++
0.68	7.2	9.5	4.5	5.0	0.6	C241J684-2S****+++
0.82	7.2	9.5	4.5	5.0	0.6	C241J824-2S****+++
1.0	7.2	10.0	5.0	5.0	0.6	C241J105-2S****+++
1.5	7.2	11.0	6.0	5.0	0.6	C241J155-2S****+++
2.2	7.2	11.0	6.0	5.0	0.6	C241J225-2S****+++

100 Vdc (63Vac)

C (μF)	W	H	T	P	d	产品代码
0.10	7.2	6.5	2.5	5.0	0.5	C242A104-2S****+++
0.12	7.2	6.5	2.5	5.0	0.5	C242A124-2S****+++
0.15	7.2	7.5	3.5	5.0	0.5	C242A154-2S****+++
0.18	7.2	7.5	3.5	5.0	0.5	C242A184-2S****+++
0.22	7.2	7.5	3.5	5.0	0.5	C242A224-2S****+++
0.27	7.2	9.5	4.5	5.0	0.6	C242A274-2S****+++
0.33	7.2	9.5	4.5	5.0	0.6	C242A334-2S****+++
0.39	7.2	9.5	4.5	5.0	0.6	C242A394-2S****+++
0.47	7.2	10.0	5.0	5.0	0.6	C242A474-2S****+++
0.56	7.2	10.0	5.0	5.0	0.6	C242A564-2S****+++
0.68	7.2	11.0	6.0	5.0	0.6	C242A684-2S****+++
0.82	7.2	11.0	6.0	5.0	0.6	C242A824-2S****+++
1.0	7.2	11.0	6.0	5.0	0.6	C242A105-2S****+++

250 Vdc (140Vac)

C (μF)	W	H	T	P	d	产品代码
0.022	7.2	6.5	2.5	5.0	0.5	C242E223-2S****+++
0.027	7.2	6.5	2.5	5.0	0.5	C242E273-2S****+++
0.033	7.2	6.5	2.5	5.0	0.5	C242E333-2S****+++
0.039	7.2	7.5	3.5	5.0	0.5	C242E393-2S****+++
0.047	7.2	7.5	3.5	5.0	0.5	C242E473-2S****+++
0.056	7.2	7.5	3.5	5.0	0.5	C242E563-2S****+++
0.068	7.2	7.5	3.5	5.0	0.5	C242E683-2S****+++
0.082	7.2	9.5	4.5	5.0	0.6	C242E823-2S****+++
0.10	7.2	9.5	4.5	5.0	0.6	C242E104-2S****+++
0.12	7.2	9.5	4.5	5.0	0.6	C242E124-2S****+++
0.15	7.2	10.0	5.0	5.0	0.6	C242E154-2S****+++
0.18	7.2	11.0	6.0	5.0	0.6	C242E184-2S****+++
0.22	7.2	11.0	6.0	5.0	0.6	C242E224-2S****+++

400 Vdc (160Vac)

C (μF)	W	H	T	P	d	产品代码
0.0056	7.2	6.5	2.5	5.0	0.5	C242G562-2S****+++
0.0068	7.2	6.5	2.5	5.0	0.5	C242G682-2S****+++
0.0082	7.2	6.5	2.5	5.0	0.5	C242G822-2S****+++
0.010	7.2	6.5	2.5	5.0	0.5	C242G103-2S****+++
0.012	7.2	6.5	2.5	5.0	0.5	C242G123-2S****+++
0.015	7.2	7.5	3.5	5.0	0.5	C242G153-2S****+++
0.018	7.2	7.5	3.5	5.0	0.5	C242G183-2S****+++
0.022	7.2	7.5	3.5	5.0	0.5	C242G223-2S****+++
0.027	7.2	7.5	3.5	5.0	0.5	C242G273-2S****+++
0.033	7.2	9.5	4.5	5.0	0.6	C242G333-2S****+++
0.039	7.2	9.5	4.5	5.0	0.6	C242G393-2S****+++
0.047	7.2	9.5	4.5	5.0	0.6	C242G473-2S****+++
0.051	7.2	10.0	5.0	5.0	0.6	C242G513-2S****+++
0.056	7.2	11.0	6.0	5.0	0.6	C242G563-2S****+++
0.068	7.2	11.0	6.0	5.0	0.6	C242G683-2S****+++
0.082	7.2	11.0	6.0	5.0	0.6	C242G823-2S****+++
0.10	7.2	11.0	6.0	5.0	0.6	C242G104-2S****+++

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

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

3. "#" when the rated voltage is 50VDC,the digit 4~5 is 1H.

Pattern II (Reduced size)

500 Vdc/630(220Vac)#						
C (μF)	W	H	T	P	d	产品代码
0.0018	7.2	6.5	2.5	5.0	0.5	C242J182-2S****+++
0.0022	7.2	6.5	2.5	5.0	0.5	C242J222-2S****+++
0.0027	7.2	6.5	2.5	5.0	0.5	C242J272-2S****+++
0.0033	7.2	6.5	2.5	5.0	0.5	C242J332-2S****+++
0.0039	7.2	6.5	2.5	5.0	0.5	C242J392-2S****+++
0.0047	7.2	6.5	2.5	5.0	0.5	C242J472-2S****+++
0.0056	7.2	7.5	3.5	5.0	0.5	C242J562-2S****+++
0.0068	7.2	7.5	3.5	5.0	0.5	C242J682-2S****+++
0.0082	7.2	7.5	3.5	5.0	0.5	C242J822-2S****+++
0.010	7.2	7.5	3.5	5.0	0.5	C242J103-2S****+++
0.012	7.2	9.5	4.5	5.0	0.6	C242J123-2S****+++
0.015	7.2	9.5	4.5	5.0	0.6	C242J153-2S****+++
0.018	7.2	9.5	4.5	5.0	0.6	C242J183-2S****+++
0.022	7.2	10.0	5.0	5.0	0.6	C242J223-2S****+++
0.027	7.2	11.0	6.0	5.0	0.6	C242J273-2S****+++
0.033	7.2	11.0	6.0	5.0	0.6	C242J333-2S****+++

700 Vdc (250Vac)						
C (μF)	W	H	T	P	d	产品代码
0.0010	7.2	6.5	2.5	5.0	0.5	C241V102-2S****+++
0.0012	7.2	6.5	2.5	5.0	0.5	C241V122-2S****+++
0.0015	7.2	6.5	2.5	5.0	0.5	C241V152-2S****+++
0.0018	7.2	6.5	2.5	5.0	0.5	C241V182-2S****+++
0.0022	7.2	6.5	2.5	5.0	0.5	C241V222-2S****+++
0.0027	7.2	6.5	2.5	5.0	0.5	C241V272-2S****+++
0.0033	7.2	7.5	3.5	5.0	0.5	C241V332-2S****+++
0.0039	7.2	7.5	3.5	5.0	0.5	C241V392-2S****+++
0.0047	7.2	7.5	3.5	5.0	0.5	C241V472-2S****+++
0.0056	7.2	7.5	3.5	5.0	0.5	C241V562-2S****+++
0.0068	7.2	7.5	3.5	5.0	0.5	C241V682-2S****+++
0.0082	7.2	9.5	4.5	5.0	0.6	C241V822-2S****+++
0.010	7.2	9.5	4.5	5.0	0.6	C241V103-2S****+++
0.012	7.2	9.5	4.5	5.0	0.6	C241V123-2S****+++
0.015	7.2	10.0	5.0	5.0	0.6	C241V153-2S****+++
0.018	7.2	10.0	5.0	5.0	0.6	C241V183-2S****+++
0.022	7.2	11.0	6.0	5.0	0.6	C241V223-2S****+++

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

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

3. "#" when the rated voltage is 500VDC,the digit 4~5 is 2H.

Pattern I (High performance)

50Vdc (30Vac)/63Vdc (40Vac) #						
C (μF)	W	H	T	P	d	产品代码
0.0010	7.2	6.5	2.5	5.0	0.5	C241J102-20****+++
0.0012	7.2	6.5	2.5	5.0	0.5	C241J122-20****+++
0.0015	7.2	6.5	2.5	5.0	0.5	C241J152-20****+++
0.0018	7.2	6.5	2.5	5.0	0.5	C241J182-20****+++
0.0022	7.2	6.5	2.5	5.0	0.5	C241J222-20****+++
0.0027	7.2	6.5	2.5	5.0	0.5	C241J272-20****+++
0.0033	7.2	6.5	2.5	5.0	0.5	C241J332-20****+++
0.0039	7.2	6.5	2.5	5.0	0.5	C241J392-20****+++
0.0047	7.2	6.5	2.5	5.0	0.5	C241J472-20****+++
0.0056	7.2	6.5	2.5	5.0	0.5	C241J562-20****+++
0.0068	7.2	6.5	2.5	5.0	0.5	C241J682-20****+++
0.0082	7.2	6.5	2.5	5.0	0.5	C241J822-20****+++
0.010	7.2	6.5	2.5	5.0	0.5	C241J103-20****+++
0.012	7.2	6.5	2.5	5.0	0.5	C241J123-20****+++
0.015	7.2	6.5	2.5	5.0	0.5	C241J153-20****+++
0.018	7.2	6.5	2.5	5.0	0.5	C241J183-20****+++
0.022	7.2	6.5	2.5	5.0	0.5	C241J223-20****+++
0.027	7.2	6.5	2.5	5.0	0.5	C241J273-20****+++
0.033	7.2	6.5	2.5	5.0	0.5	C241J333-20****+++
0.039	7.2	6.5	2.5	5.0	0.5	C241J393-20****+++
0.047	7.2	6.5	2.5	5.0	0.5	C241J473-20****+++
0.056	7.2	6.5	2.5	5.0	0.5	C241J563-20****+++
0.068	7.2	6.5	2.5	5.0	0.5	C241J683-20****+++
0.082	7.2	6.5	2.5	5.0	0.5	C241J823-20****+++
0.10	7.2	6.5	2.5	5.0	0.5	C241J104-20****+++
0.12	7.2	6.5	2.5	5.0	0.5	C241J124-20****+++
0.15	7.2	7.5	3.5	5.0	0.5	C241J154-20****+++
0.18	7.2	7.5	3.5	5.0	0.5	C241J184-20****+++
0.22	7.2	7.5	3.5	5.0	0.5	C241J224-20****+++
0.27	7.2	9.5	4.5	5.0	0.6	C241J274-20****+++
0.33	7.2	9.5	4.5	5.0	0.6	C241J334-20****+++
0.39	7.2	9.5	4.5	5.0	0.6	C241J394-20****+++
0.47	7.2	10.0	5.0	5.0	0.6	C241J474-20****+++
0.56	7.2	10.0	5.0	5.0	0.6	C241J564-20****+++
0.68	7.2	11.0	6.0	5.0	0.6	C241J684-20****+++
0.82	7.2	11.0	6.0	5.0	0.6	C241J824-20****+++
1.0	7.2	11.0	6.0	5.0	0.6	C241J105-20****+++

100 Vdc (63Vac)						
C (μF)	W	H	T	P	d	产品代码
0.0010	7.2	6.5	2.5	5.0	0.5	C242A102-20****+++
0.0012	7.2	6.5	2.5	5.0	0.5	C242A122-20****+++
0.0015	7.2	6.5	2.5	5.0	0.5	C242A152-20****+++
0.0018	7.2	6.5	2.5	5.0	0.5	C242A182-20****+++
0.0022	7.2	6.5	2.5	5.0	0.5	C242A222-20****+++
0.0027	7.2	6.5	2.5	5.0	0.5	C242A272-20****+++
0.0033	7.2	6.5	2.5	5.0	0.5	C242A332-20****+++
0.0039	7.2	6.5	2.5	5.0	0.5	C242A392-20****+++
0.0047	7.2	6.5	2.5	5.0	0.5	C242A472-20****+++
0.0056	7.2	6.5	2.5	5.0	0.5	C242A562-20****+++
0.0068	7.2	6.5	2.5	5.0	0.5	C242A682-20****+++
0.0082	7.2	6.5	2.5	5.0	0.5	C242A822-20****+++
0.010	7.2	6.5	2.5	5.0	0.5	C242A103-20****+++
0.012	7.2	6.5	2.5	5.0	0.5	C242A123-20****+++
0.015	7.2	6.5	2.5	5.0	0.5	C242A153-20****+++
0.018	7.2	6.5	2.5	5.0	0.5	C242A183-20****+++
0.022	7.2	6.5	2.5	5.0	0.5	C242A223-20****+++
0.027	7.2	6.5	2.5	5.0	0.5	C242A273-20****+++
0.033	7.2	6.5	2.5	5.0	0.5	C242A333-20****+++
0.039	7.2	6.5	2.5	5.0	0.5	C242A393-20****+++
0.047	7.2	6.5	2.5	5.0	0.5	C242A473-20****+++
0.056	7.2	6.5	2.5	5.0	0.5	C242A563-20****+++
0.068	7.2	6.5	2.5	5.0	0.5	C242A683-20****+++
0.082	7.2	6.5	2.5	5.0	0.5	C242A823-20****+++
0.10	7.2	7.5	3.5	5.0	0.5	C242A104-20****+++
0.12	7.2	9.5	4.5	5.0	0.6	C242A124-20****+++
0.15	7.2	9.5	4.5	5.0	0.6	C242A154-20****+++
0.18	7.2	9.5	4.5	5.0	0.6	C242A184-20****+++
0.22	7.2	10.0	5.0	5.0	0.6	C242A224-20****+++
0.27	7.2	10.0	5.0	5.0	0.6	C242A274-20****+++
0.33	7.2	11.0	6.0	5.0	0.6	C242A334-20****+++
0.39	7.2	11.0	6.0	5.0	0.6	C242A394-20****+++
0.47	7.2	11.0	6.0	5.0	0.6	C242A474-20****+++
0.56	7.2	11.0	6.0	5.0	0.6	C242A564-20****+++

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

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

3. "#" when the rated voltage is 50VDC,the digit 4~5 is 1H.

Pattern I (High performance)

250 Vdc (160Vac)						
C (μF)	W	H	T	P	d	产品代码
0.0010	7.2	6.5	2.5	5.0	0.5	C242E102-20****+++
0.0012	7.2	6.5	2.5	5.0	0.5	C242E122-20****+++
0.0015	7.2	6.5	2.5	5.0	0.5	C242E152-20****+++
0.0018	7.2	6.5	2.5	5.0	0.5	C242E182-20****+++
0.0022	7.2	6.5	2.5	5.0	0.5	C242E222-20****+++
0.0027	7.2	6.5	2.5	5.0	0.5	C242E272-20****+++
0.0033	7.2	6.5	2.5	5.0	0.5	C242E332-20****+++
0.0039	7.2	6.5	2.5	5.0	0.5	C242E392-20****+++
0.0047	7.2	6.5	2.5	5.0	0.5	C242E472-20****+++
0.0056	7.2	6.5	2.5	5.0	0.5	C242E562-20****+++
0.0068	7.2	6.5	2.5	5.0	0.5	C242E682-20****+++
0.0082	7.2	6.5	2.5	5.0	0.5	C242E822-20****+++
0.010	7.2	6.5	2.5	5.0	0.5	C242E103-20****+++
0.012	7.2	6.5	2.5	5.0	0.5	C242E123-20****+++
0.015	7.2	6.5	2.5	5.0	0.5	C242E153-20****+++
0.018	7.2	6.5	2.5	5.0	0.5	C242E183-20****+++
0.022	7.2	7.5	3.5	5.0	0.5	C242E223-20****+++
0.027	7.2	7.5	3.5	5.0	0.5	C242E273-20****+++
0.033	7.2	7.5	3.5	5.0	0.5	C242E333-20****+++
0.039	7.2	7.5	3.5	5.0	0.5	C242E393-20****+++
0.047	7.2	9.5	4.5	5.0	0.6	C242E473-20****+++
0.056	7.2	9.5	4.5	5.0	0.6	C242E563-20****+++
0.068	7.2	9.5	4.5	5.0	0.6	C242E683-20****+++
0.082	7.2	10.0	5.0	5.0	0.6	C242E823-20****+++
0.10	7.2	10.0	5.0	5.0	0.6	C242E104-20****+++
0.12	7.2	11.0	6.0	5.0	0.6	C242E124-20****+++
0.15	7.2	11.0	6.0	5.0	0.6	C242E154-20****+++

400 Vdc (200Vac)						
C (μF)	W	H	T	P	d	产品代码
0.0010	7.2	6.5	2.5	5.0	0.5	C242G102-20****+++
0.0012	7.2	6.5	2.5	5.0	0.5	C242G122-20****+++
0.0015	7.2	6.5	2.5	5.0	0.5	C242G152-20****+++
0.0018	7.2	6.5	2.5	5.0	0.5	C242G182-20****+++
0.0022	7.2	6.5	2.5	5.0	0.5	C242G222-20****+++
0.0027	7.2	6.5	2.5	5.0	0.5	C242G272-20****+++
0.0033	7.2	6.5	2.5	5.0	0.5	C242G332-20****+++
0.0039	7.2	6.5	2.5	5.0	0.5	C242G392-20****+++
0.0047	7.2	6.5	2.5	5.0	0.5	C242G472-20****+++
0.0056	7.2	7.5	3.5	5.0	0.5	C242G562-20****+++
0.0068	7.2	7.5	3.5	5.0	0.5	C242G682-20****+++
0.0082	7.2	7.5	3.5	5.0	0.5	C242G822-20****+++
0.010	7.2	7.5	3.5	5.0	0.5	C242G103-20****+++
0.012	7.2	9.5	4.5	5.0	0.6	C242G123-20****+++
0.015	7.2	9.5	4.5	5.0	0.6	C242G153-20****+++
0.018	7.2	9.5	4.5	5.0	0.6	C242G183-20****+++
0.022	7.2	10.0	5.0	5.0	0.6	C242G223-20****+++
0.027	7.2	11.0	6.0	5.0	0.6	C242G273-20****+++
0.033	7.2	11.0	6.0	5.0	0.6	C242G333-20****+++
0.039	7.2	11.0	6.0	5.0	0.6	C242G393-20****+++
0.047	7.2	11.0	6.0	5.0	0.6	C242G473-20****+++

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

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

Pattern I (High performance)

500 Vdc (220Vac)						
C (μF)	W	H	T	P	d	产品代码
0.0010	7.2	6.5	2.5	5.0	0.5	C242H102-20****+++
0.0012	7.2	6.5	2.5	5.0	0.5	C242H122-20****+++
0.0015	7.2	6.5	2.5	5.0	0.5	C242H152-20****+++
0.0018	7.2	6.5	2.5	5.0	0.5	C242H182-20****+++
0.0022	7.2	6.5	2.5	5.0	0.5	C242H222-20****+++
0.0027	7.2	6.5	2.5	5.0	0.5	C242H272-20****+++
0.0033	7.2	7.5	3.5	5.0	0.5	C242H332-20****+++
0.0039	7.2	7.5	3.5	5.0	0.5	C242H392-20****+++
0.0047	7.2	7.5	3.5	5.0	0.5	C242H472-20****+++
0.0056	7.2	7.5	3.5	5.0	0.5	C242H562-20****+++
0.0068	7.2	9.5	4.5	5.0	0.6	C242H682-20****+++
0.0082	7.2	9.5	4.5	5.0	0.6	C242H822-20****+++
0.010	7.2	9.5	4.5	5.0	0.6	C242H103-20****+++
0.012	7.2	9.5	4.5	5.0	0.6	C242H123-20****+++
0.015	7.2	10.0	5.0	5.0	0.6	C242H153-20****+++
0.018	7.2	11.0	6.0	5.0	0.6	C242H183-20****+++
0.022	7.2	11.0	6.0	5.0	0.6	C242H223-20****+++
0.027	7.2	11.0	6.0	5.0	0.6	C242H273-20****+++

630 Vdc (220Vac)						
C (μF)	W	H	T	P	d	产品代码
0.0010	7.2	6.5	2.5	5.0	0.5	C242J102-20****+++
0.0012	7.2	6.5	2.5	5.0	0.5	C242J122-20****+++
0.0015	7.2	6.5	2.5	5.0	0.5	C242J152-20****+++
0.0018	7.2	7.5	3.5	5.0	0.5	C242J182-20****+++
0.0022	7.2	7.5	3.5	5.0	0.5	C242J222-20****+++
0.0027	7.2	7.5	3.5	5.0	0.5	C242J272-20****+++
0.0033	7.2	7.5	3.5	5.0	0.5	C242J332-20****+++
0.0039	7.2	7.5	3.5	5.0	0.5	C242J392-20****+++
0.0047	7.2	9.5	4.5	5.0	0.6	C242J472-20****+++
0.0056	7.2	9.5	4.5	5.0	0.6	C242J562-20****+++
0.0068	7.2	9.5	4.5	5.0	0.6	C242J682-20****+++
0.0082	7.2	9.5	4.5	5.0	0.6	C242J822-20****+++
0.010	7.2	10.0	5.0	5.0	0.6	C242J103-20****+++
0.012	7.2	11.0	6.0	5.0	0.6	C242J123-20****+++
0.015	7.2	11.0	6.0	5.0	0.6	C242J153-20****+++
0.018	7.2	11.0	6.0	5.0	0.6	C242J183-20****+++

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

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

Maximum permissible voltage change per unit of time

Pattern Ⅰ

Rated Voltage（V）	Max dv/dt(V/us)
50/63	250
100	300
250	400
400	600
500	700
630	800

Pattern Ⅱ

Rated Voltage（V）	Max dv/dt(V/us)
50/63	75
100	85
250	100
400	150
500/630	200
700	250

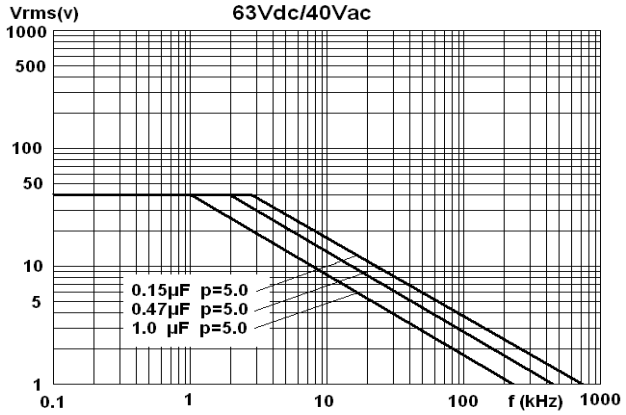
Note:

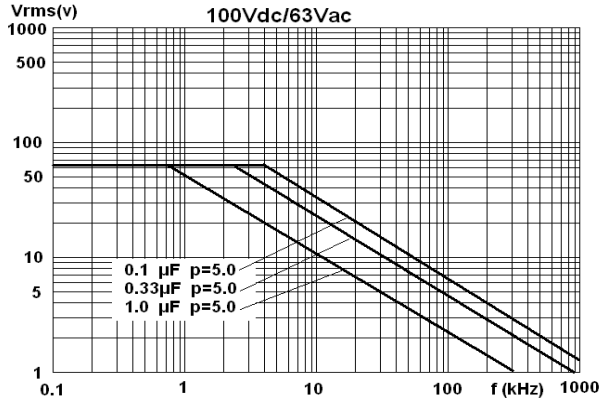
1、 Rated voltage pulse slope $(dv/dt)_R$ at rated voltage.

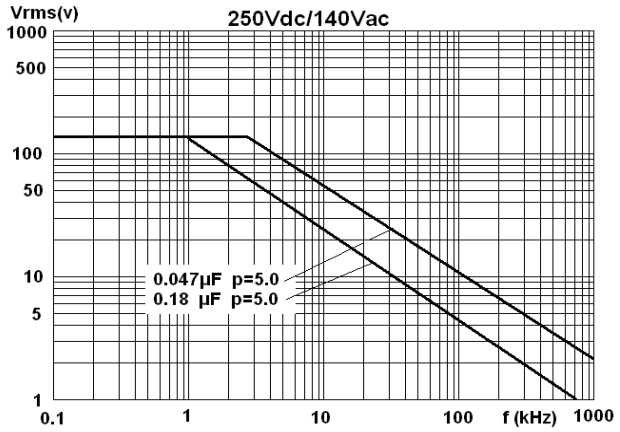
2、 If the working voltage(U) is lower than the rated voltage(U_R),the capacitor can be worked at a higher dv/dt. In this case, the maximum allowed dv/dt is obtain by multiplying the right value with U_R/U.

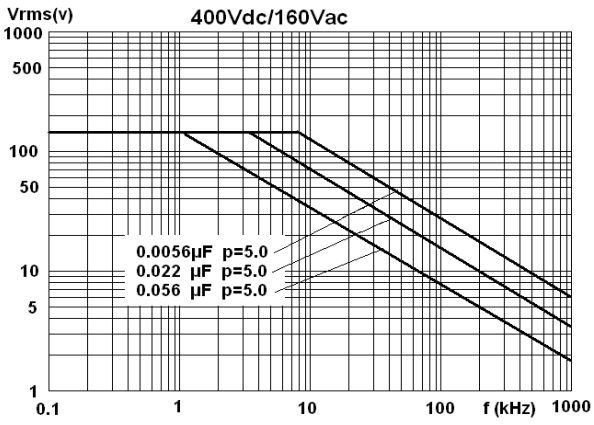
MAX. VOLTAGE(Vr.m.s) VERSUS FREQUENCY

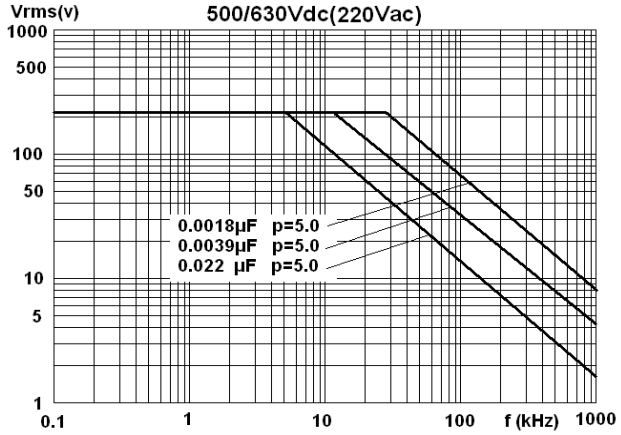
Pattern II (Reduced sized)

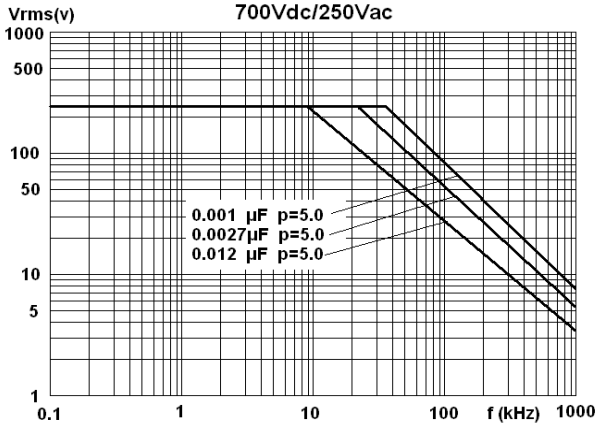








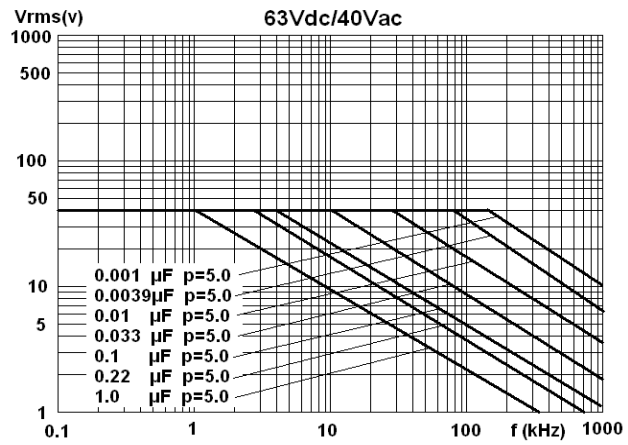


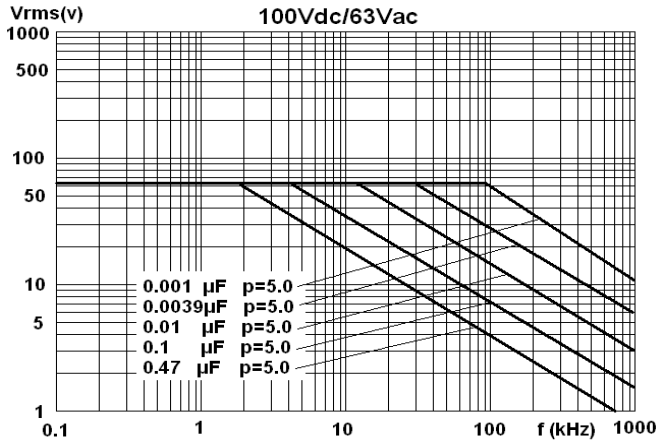


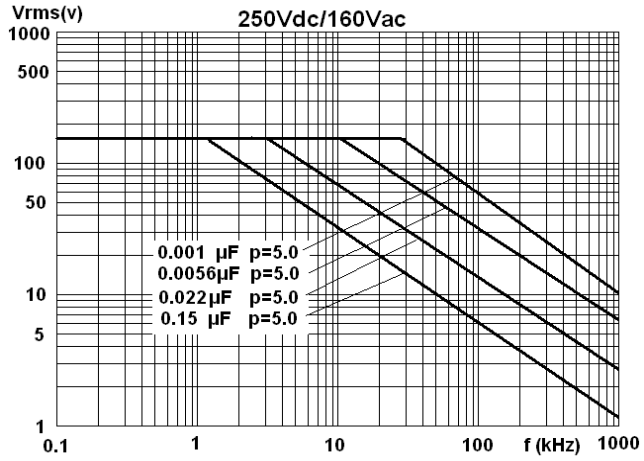
Note: sinusoidal wave-form、environment temperature≤75℃,internal temperature rise △T=10℃, p (pitch) in mm..

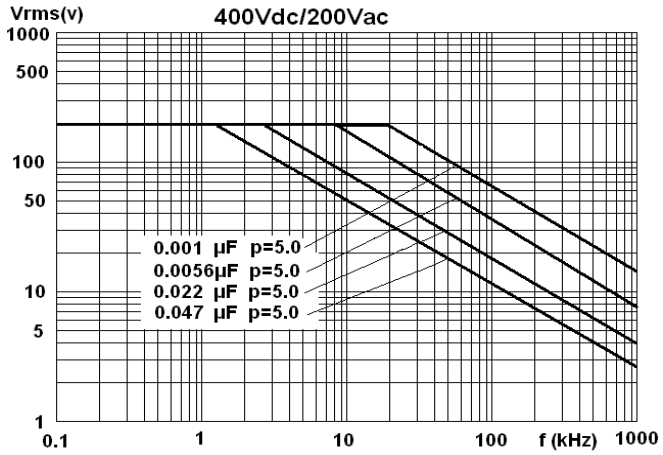
MAX. VOLTAGE(Vr.m.s) VERSUS FREQUENCY

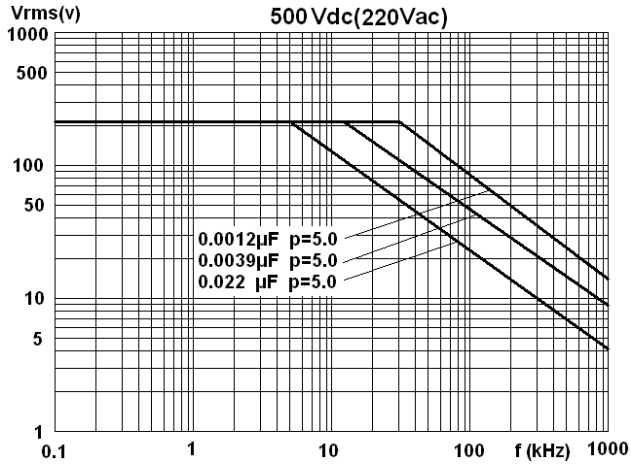
Pattern I (High performance)

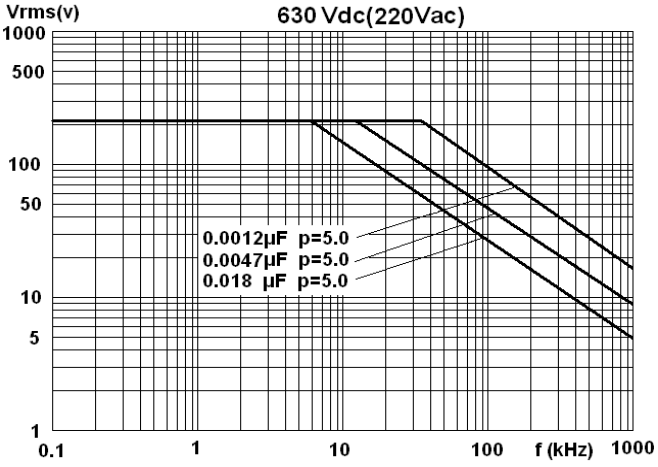












Note: sinusoidal wave-form、environment temperature≤75℃,internal temperature rise △T=10℃, p (pitch) in mm..

2 Test Method And Performance

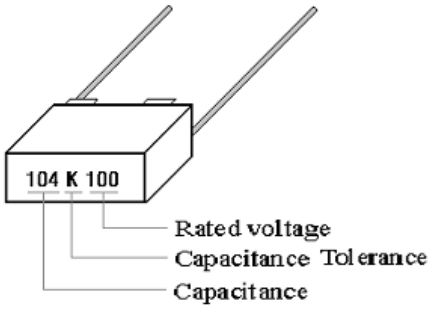
No.	Item	Performance	Test method (IEC60384-2)
1	Capacitance tolerance	J(±5%), K(±10%), M(±20%)	1kHz, 3%U_R(Vrms)max.
2	Tangent of the loss angle	tgδ≤0.010(1kHz) tgδ≤0.015(10kHz) tgδ≤0.030(100kHz, C<0.1μF)	1KHz or 10 KHz or 100 KHz ≤3%U_R(Vrms) or 1 Vrms(whichever is the minor)
3	Dielectric strength	There shall be no breakdown or flashover.	Type I: 1.6U_R, 5s Type II: 1.4U_R, 5s
4	Insulation resistance	U_R≤100V C_R≤0.33μF, ≥15 000MΩ C_R>0.33μF, ≥5 000s U_R>100V C_R≤0.33μF, ≥3 0000MΩ C_R>0.33μF, ≥10 000s	U_R≤100V, Charging voltage 10V U_R>100V, Charging voltage 100V 20˚C, measuring after applying voltage for 1 minute
5	Solderability	Good quality of tinning	Solder temperature:245˚C±5˚C Immersion time: 2.0s±0.5s
6	Initial measurement	Capacitance、Tgδ(10kHz)	
	Terminal strength	There shall be no visible damage	Tension Ua1: Pull: ϕd=0.5mm,5N; ϕd=0.6mm,10N Bend Ub: The pull of bend: ϕd=0.5mm, 2.5N ϕd=0.6mm, 5N The terminals shall be bent 2 times in each direction.
	Resistance to solder he at	There shall be no visible damage	Solder temperature:260˚C±5˚C Immersion time: 10s±1s
	Final measurement	ΔC/C ≤±2%(relative to the initial value) Increase of tgδ:≤0.003(10kHz)	
7	Component's resistance of solvents	The dimensions shall reach the requirement of Table 1, and the change of capacitor weight shall not beyond 1%.	Solvent: Industrial isopropanol. Solvent temperature:23˚C±5˚C Immersion time:5min±0.5min Reverting time:48h
8	Initial measurement	Capacitance、Tgδ(10kHz)	
	Rapid change of tempe rature	There shall be no evidence of deterioration.	θ_A=-55˚C, θ_B =+100˚C 5 cycles, Duration: t=30min
	Vibration	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 foreach direction, total 6h.
	Bump	There shall be no evidence of deterioration.	4 000 times, Acceleration: 390m/s^2,Pulse duration, 6ms
	Final measurement	ΔC/C ≤±5%(relative to the initial value) Increase of tgδ: ≤0.003 (10kHz) IR: ≥ 50% of the rated value	
9	climate sequence — Initial measurement	Capacitance、Tgδ(10kHz)	
	climate sequence — Dry heat		+100℃,16h

No.	Item		Performance	Test method (IEC60384-2)
9	climate sequence (continue)	Damp heat, Cyclic		Test Db, Severity: b, the first cycle
		Cold		-55℃, 2h
		Low air pressure	There shall be no permanent break down, flashover or other harmful deformation when applying U_R at the last 1 minute.	15℃~35℃,8.5kPa, 1h,
		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) IR: ≥50% of the rated value	
10	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 ≤0.005(10kHz) IR: ≥50% of the rated value	Temperature:40˚C ±2˚C Humidity: 93^{+2}_{-3} %RH Duration: 56 days
11	Endurance		There shall be no evidence of deterioration and the marking shall be legible. ΔC/C ≤ ±5%(relative to the initial value) Increase of tgδ: ≤0.003 (10kHz) IR: ≥50% of the rated value	Temperature: +85℃/+100℃ Voltage: 1.25× U_R /1.25×Uc ($Uc=0.8U_R$) Duration: 2 000h
12	Temperature characteristic		Measuring capacitance at test point b, d, f: Characteristic at lower category temperature -55˚C: $-10\%\leq(C_b-C_d)/C_d\leq 0\%$ Characteristic at upper category temperature +105˚C: $0\%\leq(C_f-C_d)/C_d\leq+10\%$ I.R. (test at point f): $U_R\leq$100V: ≥75MΩ (C≤0.33μF) ≥25s (C>0.33μF) U_R>100V: ≥150MΩ (C≤0.33μF) ≥50s (C>0.33μF)	Static method:The Capacitors should be kept at the following temperature in turn: a(20±2) ˚C, b(–55±3) ˚C, d(20±2) ˚C，f(+105±2) ˚C, g(20±2) ˚C

No.	Item	Performance	Test method (IEC60384-2)
13	Charging and discharging	ΔC/C ≤±5%(relative to the initial value) Increase of tgδ: ≤0.003 (10kHz, C≤1.0μF) ≤0.002 (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 Charging resistance: $220/C_R(\Omega)$ Discharging resistance: $R=10/C_R(\Omega)$ or 20Ω(whichever is the greater) C_R: rated capacitance (μF)

Note: Please test it follow the serial number.

3 Marking



4 Taping specification for box-type capacitor

■Outline Drawing

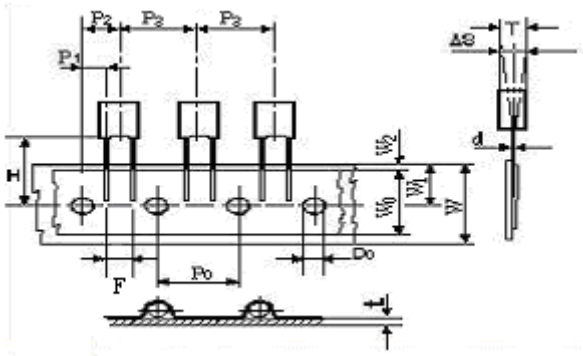


Fig.1 P=5.0、7.5mm

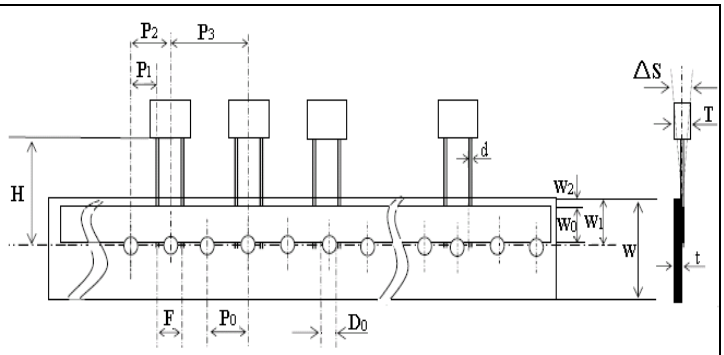


Fig.2 P=10.0、15.0mm

■ 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	±0.2
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	12min	12min	12min	——
Hole position	W_1	9.0	9.0	9.0	9.0	±0.5
Hold down tape sition	W_2	1.5max	1.5max	1.5max	1.5max	——
Feed hole dia.	D_0	4.0	4.0	4.0	4.0	±0.2
Tape thickness	t	0.7	0.7	0.7	0.9	±0.2

■ Packing Quantity

Pitch (mm)	Box thinkness T(mm)	Ammo-pack (pcs/box)	
		Domestic	Export
5.0	3.5	1 700	1 500
	4.5	1 400	1 300
	5.0	1 200	1 000
	6.0	1 000	800
7.5	3.5	1 700	1 500
	4.0	1 500	1 300
	5.0	1 200	1 000
	6.0	1 000	800
10.0/ 15.0	4.0	750	650
	5.0	600	500
	6.0	500	450
15.0	7.5	400	350
	8.5	350	300
	10.0	300	250
	11.0	250	200

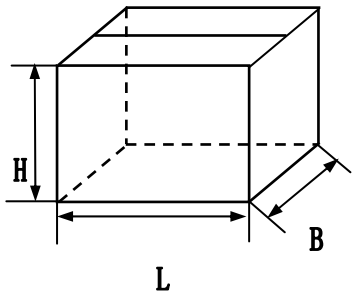
Note: * P_0=15mm is also available;

**F can be other lead spacing;

***H=16.5mm is available;

5 Packing in bulk

5. 1Out packing box for bulk



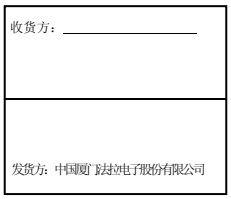
L:375mm

B:375mm

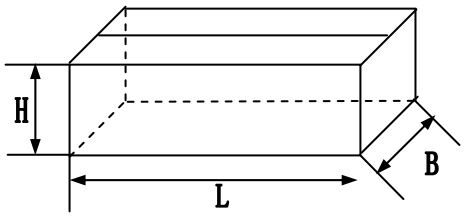
H:265mm

Plane drawing

Overlooking Drawing



5. 2 Inner packing box for bulk

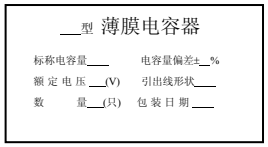


L:355mm

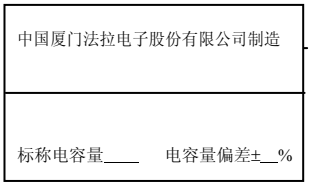
B:175mm

H:118mm

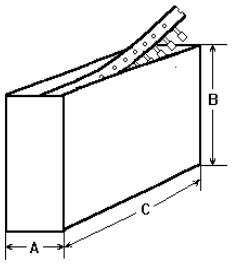
Plane drawing



Overlooking Drawing



5.3 Box size forAmmo-pack



A=48±3; B=260±3; C=330±3