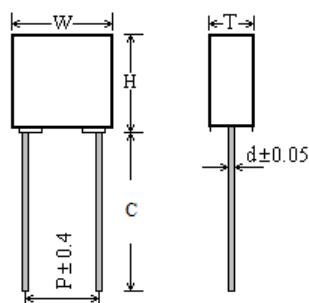


Box-type metallized polyester film capacitor (Stacked version)

■ 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 ≤ 0.1μF	C _R > 0.1μF
	1kHz	≤1.0%	≤1.0%
	10kHz	≤1.5%	≤1.5%
	100kHz	≤3.0%	-
Insulation Resistance	U _R > 100V	≥3 000MΩ, 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=10×10³pF=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	C24IJ102-20*****
0.0012	7.2	6.5	2.5	5.0	0.5	C24IJ122-20*****
0.0015	7.2	6.5	2.5	5.0	0.5	C24IJ152-20*****
0.0018	7.2	6.5	2.5	5.0	0.5	C24IJ182-20*****
0.0022	7.2	6.5	2.5	5.0	0.5	C24IJ222-20*****
0.0027	7.2	6.5	2.5	5.0	0.5	C24IJ272-20*****
0.0033	7.2	6.5	2.5	5.0	0.5	C24IJ332-20*****
0.0039	7.2	6.5	2.5	5.0	0.5	C24IJ392-20*****
0.0047	7.2	6.5	2.5	5.0	0.5	C24IJ472-20*****
0.0056	7.2	6.5	2.5	5.0	0.5	C24IJ562-20*****
0.0068	7.2	6.5	2.5	5.0	0.5	C24IJ682-20*****
0.0082	7.2	6.5	2.5	5.0	0.5	C24IJ822-20*****
0.010	7.2	6.5	2.5	5.0	0.5	C24IJ103-20*****
0.012	7.2	6.5	2.5	5.0	0.5	C24IJ123-20*****
0.015	7.2	6.5	2.5	5.0	0.5	C24IJ153-20*****
0.018	7.2	6.5	2.5	5.0	0.5	C24IJ183-20*****
0.022	7.2	6.5	2.5	5.0	0.5	C24IJ223-20*****
0.027	7.2	6.5	2.5	5.0	0.5	C24IJ273-20*****
0.033	7.2	6.5	2.5	5.0	0.5	C24IJ333-20*****
0.039	7.2	6.5	2.5	5.0	0.5	C24IJ393-20*****
0.047	7.2	6.5	2.5	5.0	0.5	C24IJ473-20*****
0.056	7.2	6.5	2.5	5.0	0.5	C24IJ563-20*****
0.068	7.2	6.5	2.5	5.0	0.5	C24IJ683-20*****
0.082	7.2	6.5	2.5	5.0	0.5	C24IJ823-20*****
0.10	7.2	6.5	2.5	5.0	0.5	C24IJ104-20*****
0.12	7.2	6.5	2.5	5.0	0.5	C24IJ124-20*****
0.15	7.2	7.5	3.5	5.0	0.5	C24IJ154-20*****
0.18	7.2	7.5	3.5	5.0	0.5	C24IJ184-20*****
0.22	7.2	7.5	3.5	5.0	0.5	C24IJ224-20*****
0.27	7.2	9.5	4.5	5.0	0.6	C24IJ274-20*****
0.33	7.2	9.5	4.5	5.0	0.6	C24IJ334-20*****
0.39	7.2	9.5	4.5	5.0	0.6	C24IJ394-20*****
0.47	7.2	10.0	5.0	5.0	0.6	C24IJ474-20*****
0.56	7.2	10.0	5.0	5.0	0.6	C24IJ564-20*****
0.68	7.2	11.0	6.0	5.0	0.6	C24IJ684-20*****
0.82	7.2	11.0	6.0	5.0	0.6	C24IJ824-20*****
1.0	7.2	11.0	6.0	5.0	0.6	C24IJ105-20*****

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 (μ F)	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 (μ F)	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 (μ F)	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 (μ F)	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

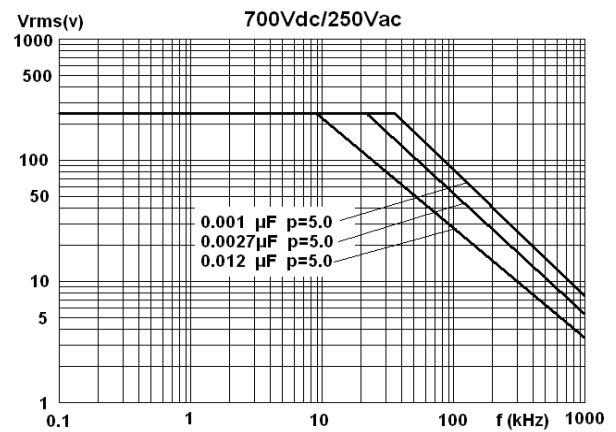
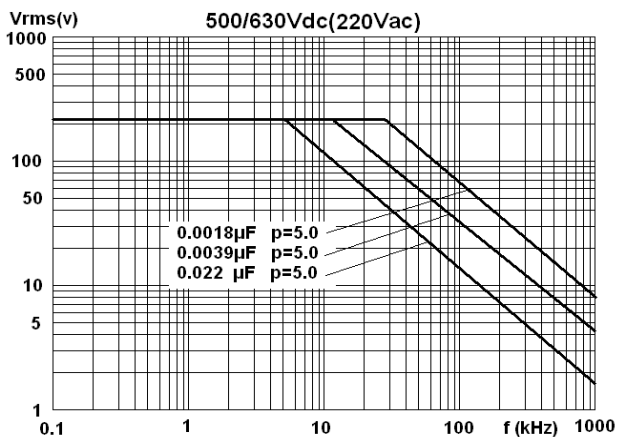
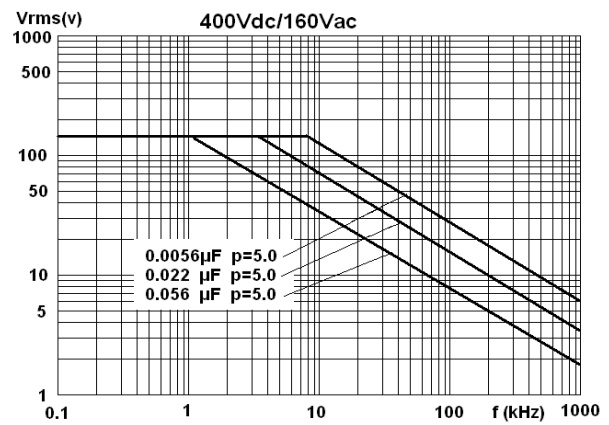
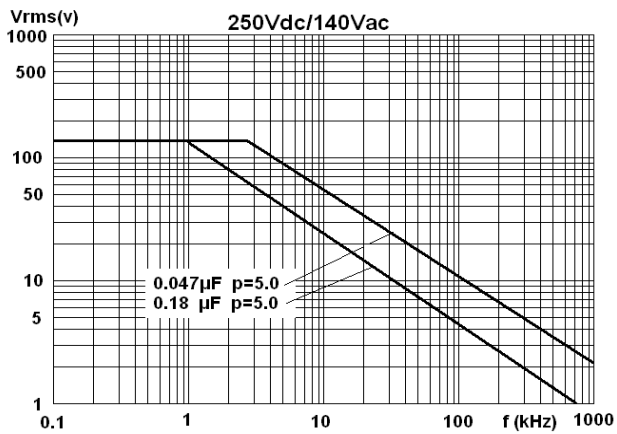
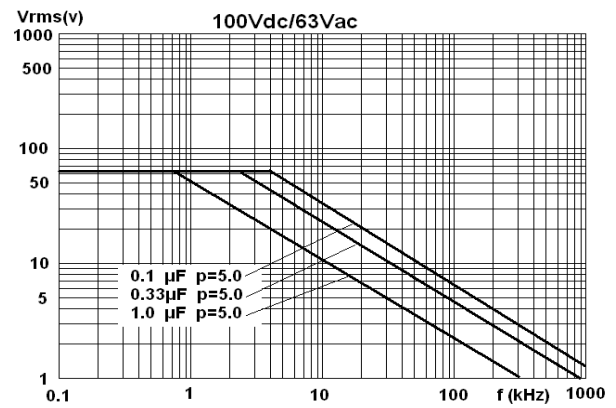
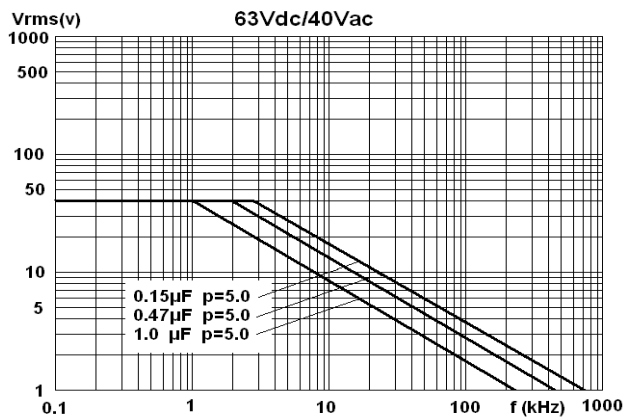
Rated Voltage (V)	Max dv/dt(V/us)
50/63	75
100	85
250	100
400	150
500/630	200
700	250

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

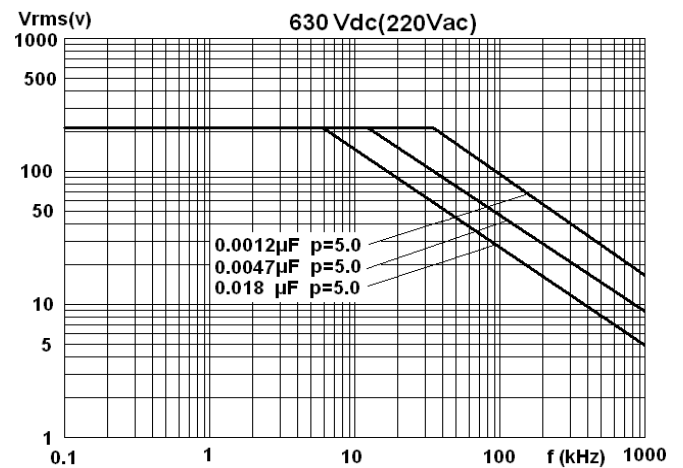
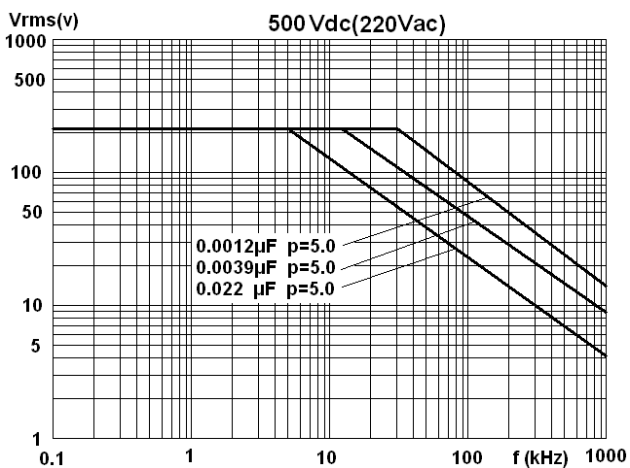
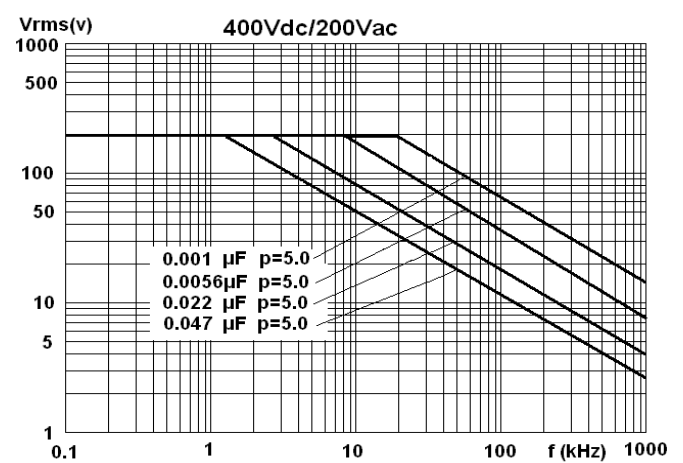
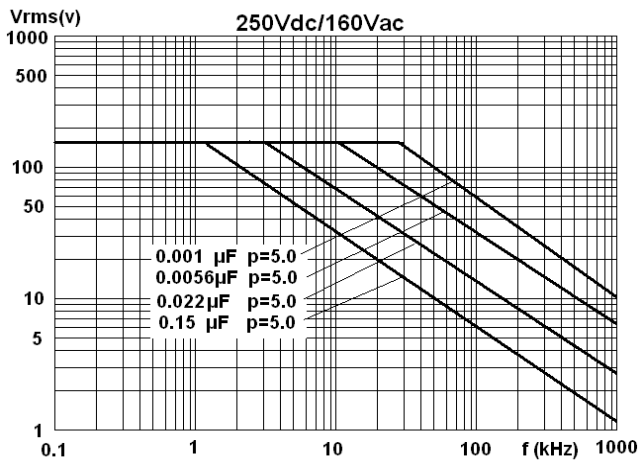
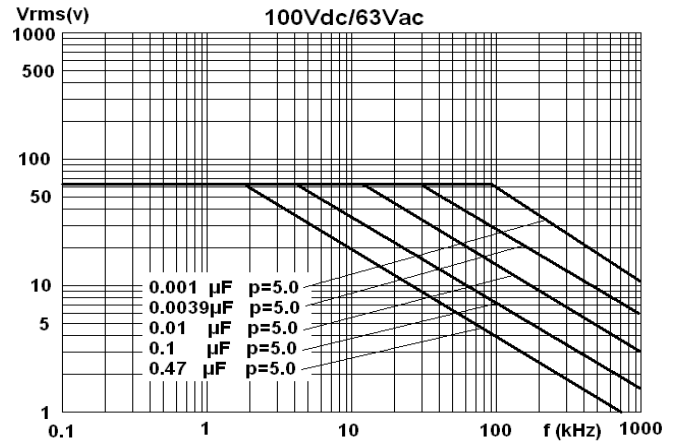
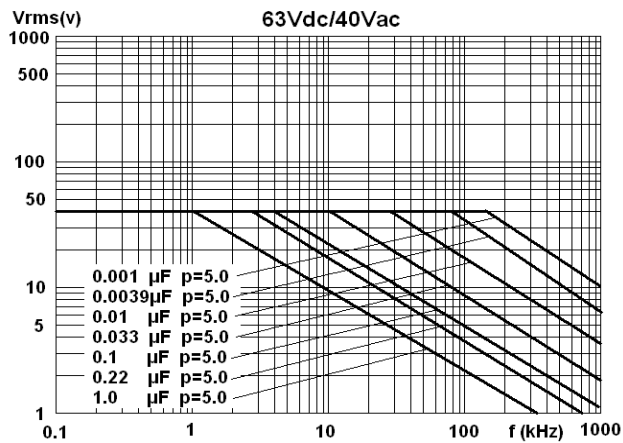
Pattern II (Reduced sized)



Note: sinusoidal wave-form、environment temperature $\leq 75^{\circ}\text{C}$, internal temperature rise $\Delta T = 10^{\circ}\text{C}$, p (pitch) in mm..

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

Pattern I (High performance)



Note: sinusoidal wave-form、environment temperature $\leq 75^{\circ}\text{C}$, internal temperature rise $\Delta T = 10^{\circ}\text{C}$, p (pitch) in mm..

2 Test Method And Performance

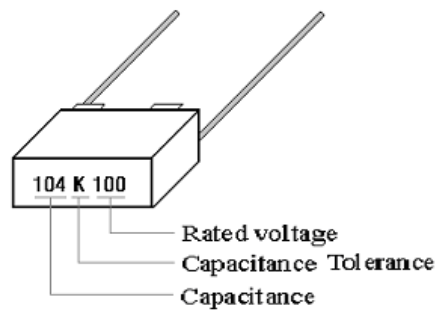
No.	Item		Performance	Test method (IEC60384-2)
1	Capacitance tolerance		J($\pm 5\%$), K($\pm 10\%$), M($\pm 20\%$)	1kHz, 3% U_R (Vrms)max.
2	Tangent of the loss angle		tg $\delta \leq 0.010$ (1kHz) tg $\delta \leq 0.015$ (10kHz) tg $\delta \leq 0.030$ (100kHz, C<0.1 μ F)	1KHz or 10 KHz or 100 KHz $\leq 3\%U_R$ (Vrms) or 1 Vrms(whichever is the minor)
3	Dielectric strength		There shall be no breakdown or flashover.	Type I: 1.6 U_R , 5s Type II: 1.4 U_R , 5s
4	Insulation resistance		$U_R \leq 100V$ $C_R \leq 0.33\mu F$, $\geq 15\ 000M\Omega$ $C_R > 0.33\mu F$, $\geq 5\ 000s$ $U_R > 100V$ $C_R \leq 0.33\mu F$, $\geq 3\ 0000M\Omega$ $C_R > 0.33\mu F$, $\geq 10\ 000s$	$U_R \leq 100V$, 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 $\pm 5^\circ C$ Immersion time: 2.0s $\pm 0.5s$
6	Initial measurement		Capacitance、Tg δ (10kHz)	
	Terminal strength		There shall be no visible damage	Tension U_{a1} : Pull: $\phi d = 0.5mm, 5N$; $\phi d = 0.6mm, 10N$ Bend U_b : The pull of bend: $\phi d = 0.5mm, 2.5N$ $\phi d = 0.6mm, 5N$ The terminals shall be bent 2 times in each direction.
	Resistance to solder heat		There shall be no visible damage	Solder temperature: 260°C $\pm 5^\circ C$ Immersion time: 10s $\pm 1s$
	Final measurement		$\Delta C/C \leq \pm 2\%$ (relative to the initial value) Increase of tg $\delta \leq 0.003$ (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 $\pm 5^\circ C$ Immersion time: 5min $\pm 0.5min$ Reverting time: 48h
8	Initial measurement		Capacitance、Tg δ (10kHz)	
	Rapid change of temperature		There shall be no evidence of deterioration.	$\theta_A = -55^\circ C$, $\theta_B = +100^\circ C$ 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 for each direction, total 6h.
	Bump		There shall be no evidence of deterioration.	4 000 times, Acceleration: 390m/s ² , Pulse duration, 6ms
	Final measurement		$\Delta C/C \leq \pm 5\%$ (relative to the initial value) Increase of tg δ : ≤ 0.003 (10kHz) IR: $\geq 50\%$ of the rated value	
9	climate sequence	Initial measurement	Capacitance、Tg δ (10kHz)	
		Dry heat		+100°C, 16h

No.	Item		Performance	Test method (IEC60384-2)
9	climate sequence (continue)	Damp heat, Cyclic		Test Db, Severity: b, the first cycle
		Cold		-55°C, 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°C~35°C, 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. $\Delta C/C \leq \pm 5\%$ (relative to the initial value) Increase of $\tan \delta$: ≤ 0.005 (10kHz) IR: $\geq 50\%$ of the rated value	
10	Damp heat steady state		There shall be no evidence of deterioration and the marking shall be legible. $\Delta C/C \leq \pm 5\%$ (relative to the initial value) Increase of $\tan \delta \leq 0.005$ (10kHz) IR: $\geq 50\%$ of the rated value	Temperature: 40°C $\pm 2^\circ\text{C}$ Humidity: $93 \pm 2\%$ RH Duration: 56 days
11	Endurance		There shall be no evidence of deterioration and the marking shall be legible. $\Delta C/C \leq \pm 5\%$ (relative to the initial value) Increase of $\tan \delta$: ≤ 0.003 (10kHz) IR: $\geq 50\%$ of the rated value	Temperature: +85°C/+100°C Voltage: $1.25 \times U_R$ / $1.25 \times U_c$ ($U_c = 0.8 U_R$) 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): $U_R \leq 100\text{V}$: $\geq 75\text{M}\Omega$ ($C \leq 0.33\mu\text{F}$) $\geq 25\text{s}$ ($C > 0.33\mu\text{F}$) $U_R > 100\text{V}$: $\geq 150\text{M}\Omega$ ($C \leq 0.33\mu\text{F}$) $\geq 50\text{s}$ ($C > 0.33\mu\text{F}$)	Static method: The Capacitors should be kept at the following temperature in turn: a(20 $\pm$ 2) °C, b(-55 $\pm$ 3) °C, d(20 $\pm$ 2) °C, f(+105 $\pm$ 2) °C, g(20 $\pm$ 2) °C

No.	Item	Performance	Test method (IEC60384-2)
13	Charging and discharging	$\Delta C/C \leq \pm 5\%$ (relative to the initial value) Increase of $\tan \delta$: ≤ 0.003 (10kHz, $C \leq 1.0\mu F$) ≤ 0.002 (1kHz, $C > 1.0\mu F$) $IR: \geq 50\%$ 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)

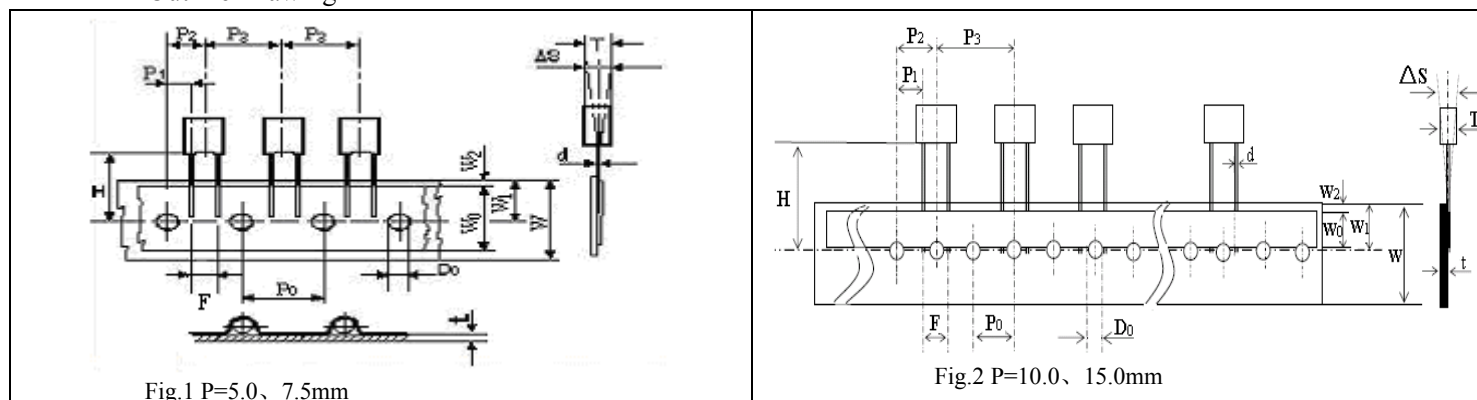
Note: Please test it follow the serial number.

3 Marking



4 Taping specification for box-type capacitor

■ Outline Drawing



■ Taping Dimensions(mm)

Technology index title	Code	Dimensions				Tolerance
		P=5.0	P=7.5	P=10.0	P=15.0	
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 thickness 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

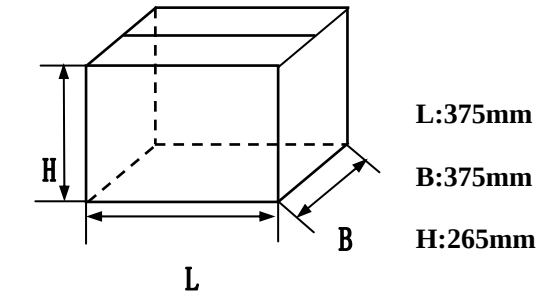
Note: * P₀=15mm is also available;

**F can be other lead spacing;

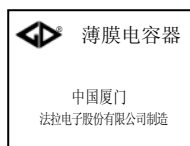
***H=16.5mm is available;

5 Packing in bulk

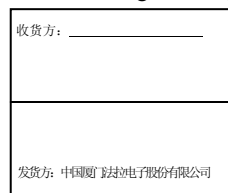
5.1 Out packing box for bulk



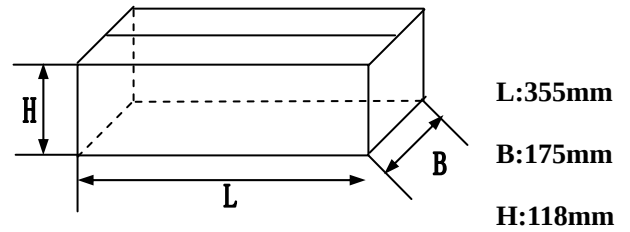
Plane drawing



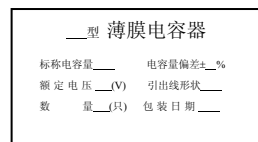
Overlooking Drawing



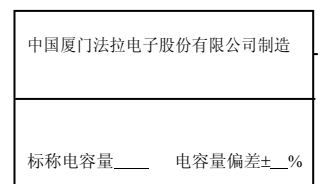
5.2 Inner packing box for bulk



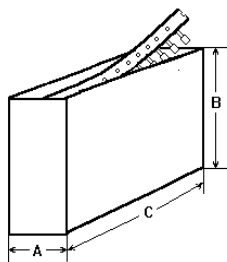
Plane drawing



Overlooking Drawing



5.3 Box size for Ammo-pack



A=48±3; B=260±3; C=330±3