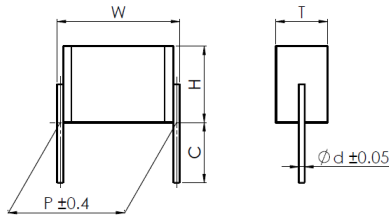


## Uncoated Metallized Polyester Film Capacitor(Stacked version, uncoated)

### ■ Outline Drawing



### ■ Features

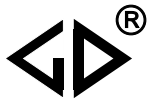
- metallized polyester film, stacked construction, Uncoated
- High impulse and pulse strength

### ■ Typical Applications

- DC impulse and pulse circuits
- SMPS, converter, Electronic ballasts, compact fluorescent lamps

### ■ Specifications

Reference Standard	GB/T 7332(IEC 60384-2)				
Climatic Category	55/125/56				
Rated Temperature	85℃				
Operating Temperature Range	-55℃~125℃ (+85℃ to +125℃: decreasing factor 1.25% per °C for $U_R$ )				
Rated Voltage	63V, 100V, 250V, 400V, 630V, 1 000V				
Capacitance Range	0.0010μF~10.0μF				
Capacitance Tolerance	±5%(J), ±10%(K), ±20%(M)				
Voltage Proof	1.40 $U_R$ (2s)				
Dissipation Factor	Frequency	$C_N \leq 0.1\mu F$	$C_N > 0.1\mu F$		
	1kHz	≤1.0%	≤1.0%		
	10kHz	≤1.5%	-		
	100kHz	≤3.0%	-		
Insulation Resistance	$U_R \leq 100V$	≥3750MΩ, $C_N \leq 0.33\mu F$ ≥1250s, $C_N > 0.33\mu F$		$U_R < 100V$ , charge voltage is 10V $U_R \geq 100V$ , charge voltage is 100V (20℃, 1min)	
	$U_R > 100V$	≥7500MΩ, $C_N \leq 0.33\mu F$ ≥2500s, $C_N > 0.33\mu F$			
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/μs)			
		P=5.0	P=7.5	P=10.0	P=15.0
	63	120	120	--	--
	100	150	150	75	50
	250	250	200	150	100
	400	300	275	175	125
	630	400	320	--	150
1 000	600	400	--	--	
Storage Condition	Temperature: not exceeding 35 ℃ Humidity: not exceeding 75% RH Storage time: 6 months. If exceed 6 moths, pleas dry for 24 hours at 70±5 ℃				



**■ Part number system**

The 18 digits part number is formed as follow:

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

Digit 1 to 3 Series code

C25=CL25

Digit 4 to 5 DC rated voltage

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

2G=400V 2J=630V 3A=1000V

Digit 6 to 8 Rated capacitance value

For example : 103=10×10<sup>3</sup>pF=0.01uF

Digit 9 Capacitance tolerance

J=±5%,K=±10%, M=±20%

Digit 10 Lead pitch

2=5.0mm 3=7.5mm 4=10.0mm 6=15.0mm

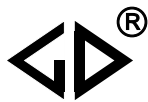
Digit 11 Internal use

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=5.0/7.5mm)
		3	F=7.5mm				
		4	F=10.0mm				
		6	F=15.0mm				
C	straight lead "C" in the figure above	code	explanation	0		0	Length tolerance ±0.5mm Or standard length
		00	standard lead length (18mm~22mm)				
		45	lead length 4.5mm				
		35	lead length 3.5mm				
		32	lead length 3.2mm				



■ Dimensions (mm)

63Vdc(40Vac)							63Vdc(40Vac)							63Vdc(40Vac)						
C <sub>N</sub> (μF)	W max	H max	T max	P	d	Part number	C <sub>N</sub> (μF)	W max	H max	T max	P	d	Part number	C <sub>N</sub> (μF)	W max	H max	T max	P	d	Part number
0.001	6.5	3.9	2.0	5.0	0.5	C251J102-20****+M	0.039	6.5	4.7	2.7	5.0	0.5	C251J393-20****+M	0.22	9.0	4.0	2.4	7.5	0.5	C251J224-30****+M
0.001	6.5	4.0	2.2	5.0	0.5	C251J122-20****+M	0.047	6.5	4.0	2.0	5.0	0.5	C251J473-20****+M	0.27	9.0	4.6	2.5	7.5	0.5	C251J274-30****+M
0.001	6.5	5.0	2.2	5.0	0.5	C251J152-20****+M	0.056	6.5	4.1	2.2	5.0	0.5	C251J563-20****+M	0.33	9.0	5.1	2.7	7.5	0.5	C251J334-30****+M
0.001	6.5	4.9	2.5	5.0	0.5	C251J182-20****+M	0.068	6.5	4.1	2.5	5.0	0.5	C251J683-20****+M	0.39	9.0	5.9	2.7	7.5	0.5	C251J394-30****+M
0.002	6.5	4.7	2.2	5.0	0.5	C251J222-20****+M	0.082	6.5	4.4	2.7	5.0	0.5	C251J823-20****+M	0.47	9.0	5.2	2.7	7.5	0.5	C251J474-30****+M
0.002	6.5	4.7	2.5	5.0	0.5	C251J272-20****+M	0.10	6.5	3.8	2.0	5.0	0.5	C251J104-20****+M	0.56	9.0	6.2	2.7	7.5	0.5	C251J564-30****+M
0.003	6.5	5.2	2.7	5.0	0.5	C251J332-20****+M	0.12	6.5	3.9	2.2	5.0	0.5	C251J124-20****+M	0.68	9.0	5.9	3.2	7.5	0.5	C251J684-30****+M
0.003	6.5	3.8	2.0	5.0	0.5	C251J392-20****+M	0.15	6.5	4.8	2.2	5.0	0.5	C251J154-20****+M	0.82	9.0	5.9	3.7	7.5	0.5	C251J824-30****+M
0.004	6.5	3.9	2.2	5.0	0.5	C251J472-20****+M	0.18	6.5	4.9	2.4	5.0	0.5	C251J184-20****+M	1.0	9.0	6.2	4.2	7.5	0.5	C251J105-30****+M
0.005	6.5	4.6	2.2	5.0	0.5	C251J562-20****+M	0.22	6.5	4.2	2.5	5.0	0.5	C251J224-20****+M	1.2	9.0	6.4	4.8	7.5	0.5	C251J125-30****+M
0.006	6.5	4.6	2.5	5.0	0.5	C251J682-20****+M	0.27	6.5	4.6	2.7	5.0	0.5	C251J274-20****+M	1.5	9.0	7.1	5.4	7.5	0.5	C251J155-30****+M
0.008	6.5	5.0	2.7	5.0	0.5	C251J822-20****+M	0.33	6.5	5.1	2.9	5.0	0.5	C251J334-20****+M	1.8	9.0	7.6	5.7	7.5	0.5	C251J185-30****+M
0.010	6.5	3.7	2.0	5.0	0.5	C251J103-20****+M	0.39	6.5	5.2	3.2	5.0	0.5	C251J394-20****+M	2.2	9.0	8.5	6.3	7.5	0.5	C251J225-30****+M
0.012	6.5	4.1	2.0	5.0	0.5	C251J123-20****+M	0.47	6.5	5.2	3.7	5.0	0.5	C251J474-20****+M	2.7	9.0	9.6	6.7	7.5	0.5	C251J275-30****+M
0.015	6.5	3.6	2.5	5.0	0.5	C251J153-20****+M	0.56	6.5	7.4	3.2	5.0	0.5	C251J564-20****+M	3.3	9.0	11.2	7.3	7.5	0.5	C251J335-30****+M
0.018	6.5	4.3	2.5	5.0	0.5	C251J183-20****+M	0.68	6.5	7.5	3.7	5.0	0.5	C251J684-20****+M	3.9	9.0	11.3	8.3	7.5	0.5	C251J395-30****+M
0.022	6.5	4.2	2.0	5.0	0.5	C251J223-20****+M	0.82	6.5	7.7	4.2	5.0	0.5	C251J824-20****+M	4.7	9.0	11.8	9.3	7.5	0.5	C251J475-30****+M
0.027	6.5	4.4	2.2	5.0	0.5	C251J273-20****+M	1.0	6.5	8.4	4.7	5.0	0.5	C251J105-20****+M	5.6	9.0	13.0	10.2	7.5	0.5	C251J565-30****+M
0.033	6.5	4.4	2.5	5.0	0.5	C251J333-20****+M								6.8	9.0	13.5	11.7	7.5	0.5	C251J685-30****+M

100Vdc(63Vac)							100Vdc(63Vac)							100Vdc(63Vac)						
C <sub>N</sub> (μF)	W max	H max	T max	P	d	Part number	C <sub>N</sub> (μF)	W max	H max	T max	P	d	Part number	C <sub>N</sub> (μF)	W max	H max	T max	P	d	Part number
0.0010	6.5	3.9	2.0	5.0	0.5	C252A102-20****+M	0.18	6.5	4.9	2.4	5.0	0.5	C252A184-20****+M	0.33	11.5	4.0	2.5	10.0	0.5	C252A334-40****+M
0.0012	6.5	4.0	2.2	5.0	0.5	C252A122-20****+M	0.22	6.5	4.7	2.9	5.0	0.5	C252A224-20****+M	0.39	11.5	4.7	2.5	10.0	0.5	C252A394-40****+M
0.0015	6.5	5.0	2.2	5.0	0.5	C252A152-20****+M	0.27	6.5	5.0	3.2	5.0	0.5	C252A274-20****+M	0.47	11.5	5.0	2.7	10.0	0.5	C252A474-40****+M
0.0018	6.5	4.9	2.5	5.0	0.5	C252A182-20****+M	0.33	6.5	5.1	3.7	5.0	0.5	C252A334-20****+M	0.56	11.5	4.7	3.2	10.0	0.5	C252A564-40****+M
0.0022	6.5	4.7	2.2	5.0	0.5	C252A222-20****+M	0.39	6.5	7.2	3.2	5.0	0.5	C252A394-20****+M	0.68	11.5	5.7	3.2	10.0	0.5	C252A684-40****+M
0.0027	6.5	4.7	2.5	5.0	0.5	C252A272-20****+M	0.47	6.5	7.2	3.7	5.0	0.5	C252A474-20****+M	0.82	11.5	5.7	3.7	10.0	0.5	C252A824-40****+M
0.0033	6.5	5.2	2.7	5.0	0.5	C252A332-20****+M	0.56	6.5	7.3	4.2	5.0	0.5	C252A564-20****+M	1.0	11.5	5.9	4.2	10.0	0.5	C252A105-40****+M
0.0039	6.5	3.8	2.0	5.0	0.5	C252A392-20****+M	0.68	6.5	7.9	4.7	5.0	0.5	C252A684-20****+M	1.2	11.5	7.1	4.2	10.0	0.5	C252A125-40****+M
0.0047	6.5	3.9	2.2	5.0	0.5	C252A472-20****+M	0.82	6.5	8.2	5.3	5.0	0.5	C252A824-20****+M	1.5	11.5	7.7	4.7	10.0	0.5	C252A155-40****+M
0.0056	6.5	4.6	2.2	5.0	0.5	C252A562-20****+M	1.0	6.5	8.5	5.7	5.0	0.5	C252A105-20****+M	1.8	11.5	8.3	5.2	10.0	0.5	C252A185-40****+M
0.0068	6.5	4.6	2.5	5.0	0.5	C252A682-20****+M	0.10	9.0	4.1	2.4	7.5	0.5	C252A104-30****+M	2.2	11.5	9.1	5.7	10.0	0.5	C252A225-40****+M
0.0082	6.5	5.0	2.7	5.0	0.5	C252A822-20****+M	0.12	9.0	4.2	2.7	7.5	0.5	C252A124-30****+M	1.0	16.5	6.1	3.2	15.0	0.6	C252A105-60****+M
0.010	6.5	3.7	2.0	5.0	0.5	C252A103-20****+M	0.15	9.0	5.2	2.7	7.5	0.5	C252A154-30****+M	1.2	16.5	5.9	3.7	15.0	0.6	C252A125-60****+M
0.012	6.5	4.1	2.0	5.0	0.5	C252A123-20****+M	0.18	9.0	3.8	2.2	7.5	0.5	C252A184-30****+M	1.5	16.5	6.6	4.2	15.0	0.6	C252A155-60****+M
0.015	6.5	3.6	2.5	5.0	0.5	C252A153-20****+M	0.22	9.0	4.0	2.4	7.5	0.5	C252A224-30****+M	1.8	16.5	7.5	4.4	15.0	0.6	C252A185-60****+M
0.018	6.5	4.3	2.5	5.0	0.5	C252A183-20****+M	0.27	9.0	4.2	2.7	7.5	0.5	C252A274-30****+M	2.2	16.5	7.5	5.2	15.0	0.6	C252A225-60****+M
0.022	6.5	4.2	2.0	5.0	0.5	C252A223-20****+M	0.33	9.0	5.1	2.7	7.5	0.5	C252A334-30****+M	2.7	16.5	8.5	5.5	15.0	0.6	C252A275-60****+M
0.027	6.5	4.4	2.2	5.0	0.5	C252A273-20****+M	0.39	9.0	5.9	2.7	7.5	0.5	C252A394-30****+M	3.3	16.5	9.3	6.0	15.0	0.6	C252A335-60****+M
0.033	6.5	4.4	2.5	5.0	0.5	C252A333-20****+M	0.47	9.0	5.7	3.2	7.5	0.5	C252A474-30****+M	3.9	16.5	10.5	6.2	15.0	0.6	C252A395-60****+M
0.039	6.5	4.7	2.7	5.0	0.5	C252A393-20****+M	0.56	9.0	5.6	3.7	7.5	0.5	C252A564-30****+M	4.7	16.5	10.8	7.0	15.0	0.6	C252A475-60****+M
0.047	6.5	4.0	2.0	5.0	0.5	C252A473-20****+M	0.68	9.0	5.8	4.2	7.5	0.5	C252A684-30****+M	5.6	16.5	11.9	7.6	15.0	0.6	C252A565-60****+M
0.056	6.5	4.1	2.2	5.0	0.5	C252A563-20****+M	0.82	9.0	7.0	4.2	7.5	0.5	C252A824-30****+M	6.8	16.5	12.4	8.7	15.0	0.6	C252A685-60****+M
0.068	6.5	4.1	2.5	5.0	0.5	C252A683-20****+M	1.0	9.0	7.4	4.7	7.5	0.5	C252A105-30****+M	8.2	16.5	13.1	9.7	15.0	0.6	C252A825-60****+M
0.082	6.5	4.4	2.7	5.0	0.5	C252A823-20****+M	1.2	9.0	7.4	5.5	7.5	0.5	C252A125-30****+M	10.0	16.5	14.5	10.6	15.0	0.6	C252A106-60****+M
0.10	6.5	3.8	2.0	5.0	0.5	C252A104-20****+M	1.5	9.0	8.0	6.3	7.5	0.5	C252A155-30****+M							
0.12	6.5	3.9	2.2	5.0	0.5	C252A124-20****+M	1.8	9.0	9.7	6.2	7.5	0.5	C252A185-30****+M							
0.15	6.5	4.8	2.2	5.0	0.5	C252A154-20****+M	2.2	9.0	10.3	7.2	7.5	0.5	C252A225-30****+M							

Note: 1. "-"=capacitance tolerance code, M=±20%,K=±10%,J=±5%  
2. "\*\*\*\*"=lead form and packaging code (refer to table 1).



■ Dimensions (mm)

250Vdc(160Vac)							250Vdc(160Vac)							250Vdc(160Vac)						
C <sub>N</sub> (μF)	W max	H max	T max	P	d	Part number	C <sub>N</sub> (μF)	W max	H max	T max	P	d	Part number	C <sub>N</sub> (μF)	W max	H max	T max	P	d	Part number
0.0010	6.5	3.9	2.0	5.0	0.5	C252E102-20****+	0.082	6.5	4.7	3.5	5.0	0.5	C252E823-20****+	0.15	11.5	6.4	3.2	10.0	0.5	C252E154-40****+
0.0012	6.5	4.0	2.2	5.0	0.5	C252E122-20****+	0.10	6.5	5.3	3.7	5.0	0.5	C252E104-20****+	0.18	11.5	5.2	3.2	10.0	0.5	C252E184-40****+
0.0015	6.5	5.0	2.2	5.0	0.5	C252E152-20****+	0.12	6.5	6.7	3.5	5.0	0.5	C252E124-20****+	0.22	11.5	5.3	3.7	10.0	0.5	C252E224-40****+
0.0018	6.5	4.9	2.5	5.0	0.5	C252E182-20****+	0.15	6.5	6.7	4.2	5.0	0.5	C252E154-20****+	0.27	11.5	5.5	4.2	10.0	0.5	C252E274-40****+
0.0022	6.5	4.7	2.2	5.0	0.5	C252E222-20****+	0.033	9.0	3.5	2.2	7.5	0.5	C252E333-30****+	0.33	11.5	6.1	4.5	10.0	0.5	C252E334-40****+
0.0027	6.5	4.7	2.5	5.0	0.5	C252E272-20****+	0.039	9.0	4.1	2.2	7.5	0.5	C252E393-30****+	0.39	11.5	6.5	4.9	10.0	0.5	C252E394-40****+
0.0033	6.5	5.2	2.7	5.0	0.5	C252E332-20****+	0.047	9.0	4.1	2.5	7.5	0.5	C252E473-30****+	0.47	11.5	7.5	5.2	10.0	0.5	C252E474-40****+
0.0039	6.5	3.8	2.0	5.0	0.5	C252E392-20****+	0.056	9.0	4.4	2.7	7.5	0.5	C252E563-30****+	0.22	16.5	4.6	3.2	15.0	0.6	C252E224-60****+
0.0047	6.5	3.9	2.2	5.0	0.5	C252E472-20****+	0.068	9.0	5.3	2.7	7.5	0.5	C252E683-30****+	0.27	16.5	5.6	3.2	15.0	0.6	C252E274-60****+
0.0056	6.5	4.6	2.2	5.0	0.5	C252E562-20****+	0.082	9.0	4.3	2.7	7.5	0.5	C252E823-30****+	0.33	16.5	5.6	3.7	15.0	0.6	C252E334-60****+
0.0068	6.5	4.6	2.5	5.0	0.5	C252E682-20****+	0.10	9.0	4.6	3.0	7.5	0.5	C252E104-30****+	0.39	16.5	6.6	3.7	15.0	0.6	C252E394-60****+
0.0082	6.5	5.0	2.7	5.0	0.5	C252E822-20****+	0.12	9.0	5.0	3.2	7.5	0.5	C252E124-30****+	0.47	16.5	6.7	4.2	15.0	0.6	C252E474-60****+
0.010	6.5	3.7	2.0	5.0	0.5	C252E103-20****+	0.15	9.0	5.2	3.7	7.5	0.5	C252E154-30****+	0.56	16.5	6.8	4.7	15.0	0.6	C252E564-60****+
0.012	6.5	4.1	2.0	5.0	0.5	C252E123-20****+	0.18	9.0	5.8	3.9	7.5	0.5	C252E184-30****+	0.68	16.5	7.3	5.5	15.0	0.6	C252E684-60****+
0.015	6.5	3.6	2.5	5.0	0.5	C252E153-20****+	0.22	9.0	6.4	4.2	7.5	0.5	C252E224-30****+	0.82	16.5	8.8	5.5	15.0	0.6	C252E824-60****+
0.018	6.5	4.3	2.5	5.0	0.5	C252E183-20****+	0.27	9.0	6.8	4.7	7.5	0.5	C252E274-30****+	1.0	16.5	9.6	6.0	15.0	0.6	C252E105-60****+
0.022	6.5	4.2	2.0	5.0	0.5	C252E223-20****+	0.33	9.0	6.9	5.5	7.5	0.5	C252E334-30****+	1.2	16.5	10.0	6.7	15.0	0.6	C252E125-60****+
0.027	6.5	4.4	2.2	5.0	0.5	C252E273-20****+	0.047	11.5	3.8	2.2	10.0	0.5	C252E473-40****+	1.5	16.5	11.8	7.0	15.0	0.6	C252E155-60****+
0.033	6.5	4.4	2.5	5.0	0.5	C252E333-20****+	0.056	11.5	4.1	2.2	10.0	0.5	C252E563-40****+	1.8	16.5	13.1	7.5	15.0	0.6	C252E185-60****+
0.039	6.5	4.7	2.7	5.0	0.5	C252E393-20****+	0.068	11.5	4.1	2.5	10.0	0.5	C252E683-40****+	2.2	16.5	12.8	9.0	15.0	0.6	C252E225-60****+
0.047	6.5	3.8	2.7	5.0	0.5	C252E473-20****+	0.082	11.5	4.4	2.7	10.0	0.5	C252E823-40****+	2.7	16.5	13.9	10.2	15.0	0.6	C252E275-60****+
0.056	6.5	4.1	2.9	5.0	0.5	C252E563-20****+	0.10	11.5	5.4	2.7	10.0	0.5	C252E104-40****+	3.3	16.5	15.3	11.2	15.0	0.6	C252E335-60****+
0.068	6.5	4.4	3.2	5.0	0.5	C252E683-20****+	0.12	11.5	5.1	3.2	10.0	0.5	C252E124-40****+							

400Vdc(200Vac)							400Vdc(200Vac)							400Vdc(200Vac)						
C <sub>N</sub> (μF)	W max	H max	T max	P	d	Part number	C <sub>N</sub> (μF)	W max	H max	T max	P	d	Part number	C <sub>N</sub> (μF)	W max	H max	T max	P	d	Part number
0.0010	6.5	3.9	2.0	5.0	0.5	C252G102-20****+	0.0022	9.0	3.7	2.2	7.5	0.5	C252G222-30****+	0.033	11.5	4.3	2.2	10.0	0.5	C252G333-40****+
0.0012	6.5	4.0	2.2	5.0	0.5	C252G122-20****+	0.0027	9.0	4.6	2.2	7.5	0.5	C252G272-30****+	0.039	11.5	4.2	2.5	10.0	0.5	C252G393-40****+
0.0015	6.5	5.0	2.2	5.0	0.5	C252G152-20****+	0.0033	9.0	3.8	2.2	7.5	0.5	C252G332-30****+	0.047	11.5	4.5	2.7	10.0	0.5	C252G473-40****+
0.0018	6.5	4.9	2.5	5.0	0.5	C252G182-20****+	0.0039	9.0	3.9	2.2	7.5	0.5	C252G392-30****+	0.056	11.5	5.4	2.7	10.0	0.5	C252G563-40****+
0.0022	6.5	4.7	2.2	5.0	0.5	C252G222-20****+	0.0047	9.0	4.7	2.2	7.5	0.5	C252G472-30****+	0.068	11.5	5.2	3.2	10.0	0.5	C252G683-40****+
0.0027	6.5	4.7	2.5	5.0	0.5	C252G272-20****+	0.0056	9.0	3.7	2.2	7.5	0.5	C252G562-30****+	0.082	11.5	6.2	3.2	10.0	0.5	C252G823-40****+
0.0033	6.5	5.2	2.7	5.0	0.5	C252G332-20****+	0.0068	9.0	4.5	2.2	7.5	0.5	C252G682-30****+	0.10	11.5	6.2	3.7	10.0	0.5	C252G104-40****+
0.0039	6.5	3.8	2.0	5.0	0.5	C252G392-20****+	0.0082	9.0	4.5	2.5	7.5	0.5	C252G822-30****+	0.12	11.5	6.4	4.2	10.0	0.5	C252G124-40****+
0.0047	6.5	3.9	2.2	5.0	0.5	C252G472-20****+	0.010	9.0	4.0	2.2	7.5	0.5	C252G103-30****+	0.15	11.5	6.9	4.7	10.0	0.5	C252G154-40****+
0.0056	6.5	4.6	2.2	5.0	0.5	C252G562-20****+	0.012	9.0	4.4	2.2	7.5	0.5	C252G123-30****+	0.18	11.5	7.5	5.2	10.0	0.5	C252G184-40****+
0.0068	6.5	4.6	2.5	5.0	0.5	C252G682-20****+	0.015	9.0	4.5	2.5	7.5	0.5	C252G153-30****+	0.22	11.5	8.2	5.7	10.0	0.5	C252G224-40****+
0.0082	6.5	5.0	2.7	5.0	0.5	C252G822-20****+	0.018	9.0	3.7	2.2	7.5	0.5	C252G183-30****+	0.047	16.5	4.1	2.4	15.0	0.6	C252G473-60****+
0.010	6.5	3.7	2.0	5.0	0.5	C252G103-20****+	0.022	9.0	4.2	2.2	7.5	0.5	C252G223-30****+	0.056	16.5	4.0	2.7	15.0	0.6	C252G563-60****+
0.012	6.5	4.1	2.0	5.0	0.5	C252G123-20****+	0.027	9.0	4.2	2.5	7.5	0.5	C252G273-30****+	0.068	16.5	4.3	2.9	15.0	0.6	C252G683-60****+
0.015	6.5	4.3	2.2	5.0	0.5	C252G153-20****+	0.033	9.0	4.6	2.7	7.5	0.5	C252G333-30****+	0.082	16.5	4.5	3.2	15.0	0.6	C252G823-60****+
0.018	6.5	4.3	2.5	5.0	0.5	C252G183-20****+	0.039	9.0	5.4	2.7	7.5	0.5	C252G393-30****+	0.10	16.5	5.5	3.2	15.0	0.6	C252G104-60****+
0.022	6.5	4.7	2.7	5.0	0.5	C252G223-20****+	0.047	9.0	6.1	2.8	7.5	0.5	C252G473-30****+	0.12	16.5	5.3	3.7	15.0	0.6	C252G124-60****+
0.027	6.5	5.2	2.9	5.0	0.5	C252G273-20****+	0.056	9.0	6.1	3.2	7.5	0.5	C252G563-30****+	0.15	16.5	6.2	3.9	15.0	0.6	C252G154-60****+
0.033	6.5	5.5	3.2	5.0	0.5	C252G333-20****+	0.068	9.0	6.1	3.7	7.5	0.5	C252G683-30****+	0.18	16.5	6.7	4.2	15.0	0.6	C252G184-60****+
0.039	6.5	5.4	3.7	5.0	0.5	C252G393-20****+	0.082	9.0	6.3	4.2	7.5	0.5	C252G823-30****+	0.22	16.5	7.1	4.7	15.0	0.6	C252G224-60****+
0.047	6.5	6.9	3.5	5.0	0.5	C252G473-20****+	0.10	9.0	7.2	4.4	7.5	0.5	C252G104-30****+	0.27	16.5	7.6	5.5	15.0	0.6	C252G274-60****+
0.056	6.5	7.7	3.7	5.0	0.5	C252G563-20****+	0.12	9.0	7.1	5.2	7.5	0.5	C252G124-30****+	0.33	16.5	8.5	5.9	15.0	0.6	C252G334-60****+
0.068	6.5	7.9	4.2	5.0	0.5	C252G683-20****+	0.15	9.0	7.9	5.7	7.5	0.5	C252G154-30****+	0.39	16.5	9.4	6.2	15.0	0.6	C252G394-60****+
0.082	6.5	8.6	4.7	5.0	0.5	C252G823-20****+	0.010	11.5	3.9	2.2	10.0	0.5	C252G103-40****+	0.47	16.5	9.8	7.0	15.0	0.6	C252G474-60****+
0.10	6.5	8.3	5.7	5.0	0.5	C252G104-20****+	0.012	11.5	4.4	2.2	10.0	0.5	C252G123-40****+	0.56	16.5	10.7	7.5	15.0	0.6	C252G564-60****+
0.0010	9.0	3.7	2.0	7.5	0.5	C252G102-30****+	0.015	11.5	4.5	2.5	10.0	0.5	C252G153-40****+	0.68	16.5	11.2	8.5	15.0	0.6	C252G684-60****+
0.0012	9.0	3.7	2.0	7.5	0.5	C252G122-30****+	0.018	11.5	4.8	2.7	10.0	0.5	C252G183-40****+	0.82	16.5	12.6	9.0	15.0	0.6	C252G824-60****+
0.0015	9.0	4.0	2.2	7.5	0.5	C252G152-30****+	0.022	11.5	4.6	2.5	10.0	0.5	C252G223-40****+	1.0	16.5	13.6	10.2	15.0	0.6	C252G105-60****+
0.0018	9.0	4.7	2.2	7.5	0.5	C252G182-30****+	0.027	11.5	5.6	2.5	10.0	0.5	C252G273-40****+							

Note: 1. “-”=capacitance tolerance code, M=±20%,K=±10%,J=±5%  
 2. “\*\*\*\*”=lead form and packaging code (refer to table 1).



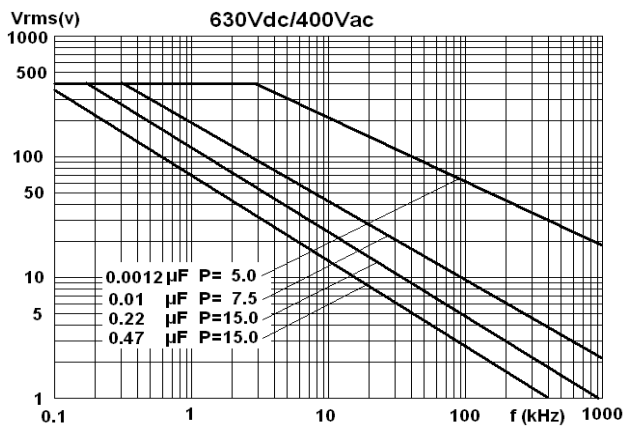
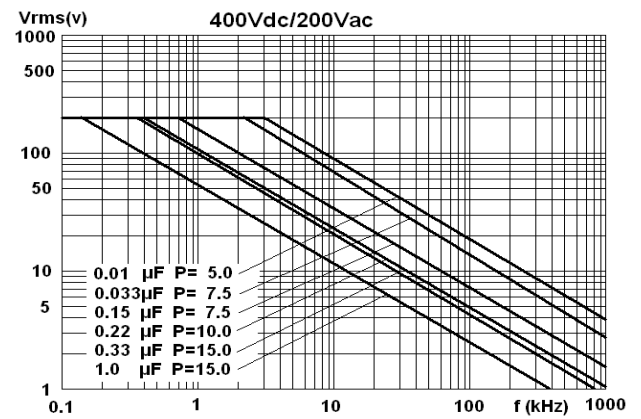
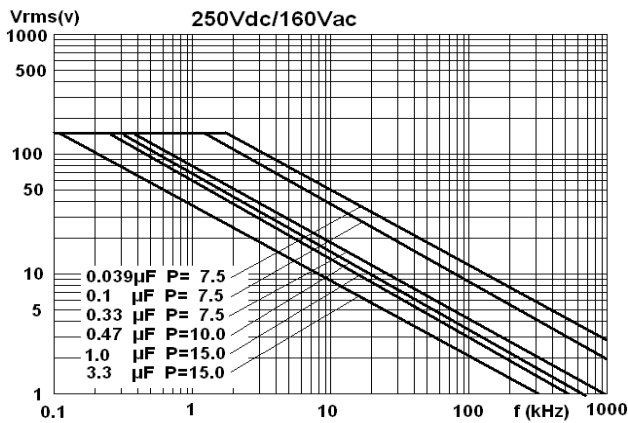
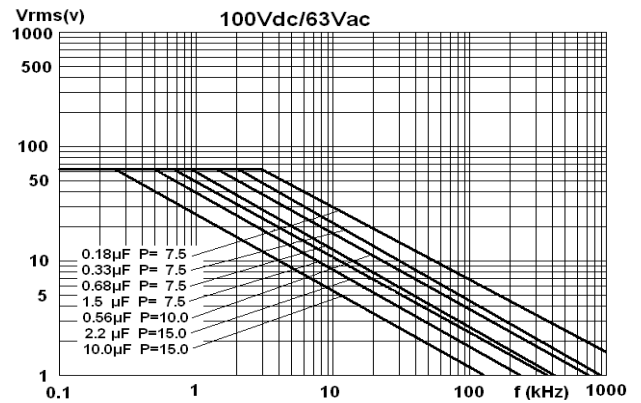
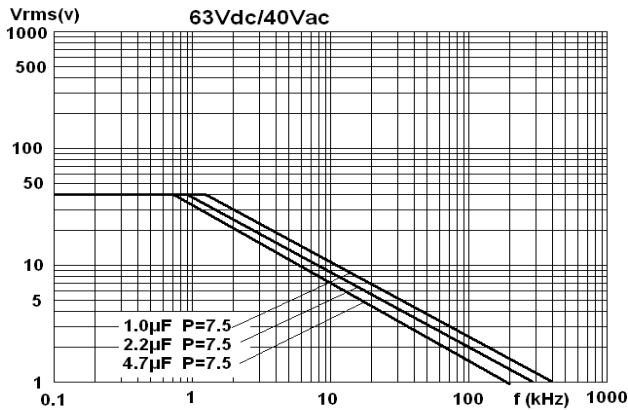
■ Dimensions (mm)

630Vdc(400Vac)							630Vdc(400Vac)							630Vdc(400Vac)						
C <sub>N</sub> (μF)	W max	H max	T max	P	d	Part number	C <sub>N</sub> (μF)	W max	H max	T max	P	d	Part number	C <sub>N</sub> (μF)	W max	H max	T max	P	d	Part number
0.0010	6.5	3.9	2.0	5.0	0.5	C252J102-20****+++	0.0010	9.0	3.7	2.0	7.5	0.5	C252J102-30****+++	0.10	16.5	9.2	5.0	15.0	0.6	C252J104-60****+++
0.0012	6.5	4.0	2.2	5.0	0.5	C252J122-20****+++	0.0012	9.0	3.7	2.0	7.5	0.5	C252J122-30****+++	0.12	16.5	9.8	5.8	15.0	0.6	C252J124-60****+++
0.0015	6.5	5.0	2.2	5.0	0.5	C252J152-20****+++	0.0015	9.0	4.0	2.2	7.5	0.5	C252J152-30****+++	0.15	16.5	11.2	6.2	15.0	0.6	C252J154-60****+++
0.0018	6.5	4.9	2.5	5.0	0.5	C252J182-20****+++	0.0018	9.0	4.7	2.2	7.5	0.5	C252J182-30****+++	0.18	16.5	11.2	7.2	15.0	0.6	C252J184-60****+++
0.0022	6.5	4.7	2.2	5.0	0.5	C252J222-20****+++	0.0022	9.0	3.7	2.2	7.5	0.5	C252J222-30****+++	0.22	16.5	12.6	7.7	15.0	0.6	C252J224-60****+++
0.0027	6.5	4.7	2.5	5.0	0.5	C252J272-20****+++	0.0027	9.0	4.0	2.4	7.5	0.5	C252J272-30****+++	0.27	16.5	14.3	8.2	15.0	0.6	C252J274-60****+++
0.0033	6.5	5.2	2.7	5.0	0.5	C252J332-20****+++	0.0033	9.0	3.8	2.2	7.5	0.5	C252J332-30****+++	0.33	16.5	14.4	9.9	15.0	0.6	C252J334-60****+++
0.0039	6.5	5.5	2.9	5.0	0.5	C252J392-20****+++	0.0039	9.0	3.9	2.2	7.5	0.5	C252J392-30****+++	0.39	16.5	15.2	10.9	15.0	0.6	C252J394-60****+++
0.0047	6.5	4.9	2.5	5.0	0.5	C252J472-20****+++	0.0047	9.0	4.1	2.4	7.5	0.5	C252J472-30****+++	0.47	16.5	17.5	11.3	15.0	0.6	C252J474-60****+++
0.0056	6.5	5.2	2.7	5.0	0.5	C252J562-20****+++	0.0056	9.0	4.6	2.5	7.5	0.5	C252J562-30****+++							
0.0068	6.5	5.0	3.2	5.0	0.5	C252J682-20****+++	0.0068	9.0	5.0	2.7	7.5	0.5	C252J682-30****+++							
0.0082	6.5	5.4	3.5	5.0	0.5	C252J822-20****+++	0.0082	9.0	6.1	2.7	7.5	0.5	C252J822-30****+++							
0.010	6.5	5.7	3.9	5.0	0.5	C252J103-20****+++	0.010	9.0	6.2	3.2	7.5	0.5	C252J103-30****+++							
0.012	6.5	7.3	3.7	5.0	0.5	C252J123-20****+++	0.012	9.0	5.8	3.7	7.5	0.5	C252J123-30****+++							
							0.015	9.0	6.2	4.2	7.5	0.5	C252J153-30****+++							
							0.018	9.0	7.4	4.2	7.5	0.5	C252J183-30****+++							
							0.022	9.0	7.9	4.7	7.5	0.5	C252J223-30****+++							
							0.027	9.0	7.8	5.7	7.5	0.5	C252J273-30****+++							
							0.033	9.0	9.5	5.7	7.5	0.5	C252J333-30****+++							
							0.039	9.0	10.2	6.3	7.5	0.5	C252J393-30****+++							
							0.047	9.0	11.2	6.8	7.5	0.5	C252J473-30****+++							

1 000Vdc(600Vac)							1 000Vdc(600Vac)							1 000Vdc(600Vac)						
C <sub>N</sub> (μF)	W max	H max	T max	P	d	Part number	C <sub>N</sub> (μF)	W max	H max	T max	P	d	Part number	C <sub>N</sub> (μF)	W max	H max	T max	P	d	Part number
0.0010	6.5	3.9	2.0	5.0	0.5	C253A102-20****+++	0.0010	9.0	3.7	2.0	7.5	0.5	C253A102-30****+++	0.012	9.0	7.3	4.7	7.5	0.5	C253A123-30****+++
0.0012	6.5	4.0	2.2	5.0	0.5	C253A122-20****+++	0.0012	9.0	3.7	2.0	7.5	0.5	C253A122-30****+++	0.015	9.0	8.1	5.2	7.5	0.5	C253A153-30****+++
0.0015	6.5	5.0	2.2	5.0	0.5	C253A152-20****+++	0.0015	9.0	4.0	2.2	7.5	0.5	C253A152-30****+++	0.018	9.0	9.7	5.2	7.5	0.5	C253A183-30****+++
0.0018	6.5	4.9	2.5	5.0	0.5	C253A182-20****+++	0.0018	9.0	4.7	2.2	7.5	0.5	C253A182-30****+++	0.022	9.0	10.6	5.7	7.5	0.5	C253A223-30****+++
0.0022	6.5	4.7	2.2	5.0	0.5	C253A222-20****+++	0.0022	9.0	3.7	2.2	7.5	0.5	C253A222-30****+++	0.027	9.0	11.8	6.3	7.5	0.5	C253A273-30****+++
0.0027	6.5	4.7	2.5	5.0	0.5	C253A272-20****+++	0.0027	9.0	4.6	2.2	7.5	0.5	C253A272-30****+++	0.033	9.0	13.2	6.8	7.5	0.5	C253A333-30****+++
0.0033	6.5	5.2	2.7	5.0	0.5	C253A332-20****+++	0.0033	9.0	4.6	2.5	7.5	0.5	C253A332-30****+++							
0.0039	6.5	5.5	2.9	5.0	0.5	C253A392-20****+++	0.0039	9.0	4.9	2.7	7.5	0.5	C253A392-30****+++							
0.0047	6.5	5.8	3.2	5.0	0.5	C253A472-20****+++	0.0047	9.0	5.8	2.7	7.5	0.5	C253A472-30****+++							
0.0056	6.5	5.8	3.7	5.0	0.5	C253A562-20****+++	0.0056	9.0	5.5	3.2	7.5	0.5	C253A562-30****+++							
0.0068	6.5	8.4	3.2	5.0	0.5	C253A682-20****+++	0.0068	9.0	6.7	3.2	7.5	0.5	C253A682-30****+++							
0.0082	6.5	8.4	3.7	5.0	0.5	C253A822-20****+++	0.0082	9.0	6.7	3.7	7.5	0.5	C253A822-30****+++							
0.010	6.5	8.8	4.2	5.0	0.5	C253A103-20****+++	0.010	9.0	7.0	4.2	7.5	0.5	C253A103-30****+++							

- Note: 1. “-”=capacitance tolerance code, M=±20%,K=±10%,J=±5%  
 2. “\*\*\*\*”=lead form and packaging code (refer to table 1).

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



Note: sinusoidal wave-form、environment temperature  $\leq 85^{\circ}\text{C}$ , internal temperature rise  $\Delta T=15^{\circ}\text{C}$ , p (pitch) in mm.

### ■ Test Method And Performance

No.	Item	Performance	Test method (GB/T 7332(IEC 60384-2))
1	Solderability	Good quality of tinning	Solder temperature: $245^{\circ}\text{C} \pm 5^{\circ}\text{C}$ Immersion time: $2.0\text{s} \pm 0.5\text{s}$
2	Initial measurement	Capacitance, $\text{Tan}\delta$	
	Terminal strength	There shall be no visible damage	Tension $U_{a1}$ : Pull: $\phi d=0.5\text{mm}, 5\text{N}$ $\phi d \geq 0.6\text{mm}, 10\text{N}$ Bend $U_b$ : The pull of bend: $\phi d=0.5\text{mm}, 2.5\text{N}$ $\phi d \geq 0.6\text{mm}, 5\text{N}$ The terminals shall be bent 2 times in each direction.
	Resistance to solder heat	There shall be no visible damage, legible marking	Solder temperature: $260^{\circ}\text{C} \pm 5^{\circ}\text{C}$ Immersion time: $10\text{s} \pm 1\text{s}$
	Final measurement	$\Delta C/C \leq \pm 2\%$ (relative to the initial value) Increase of $\text{tan}\delta$ : $\leq 0.003$ ( $C \leq 1.0\mu\text{F}$ ) $\leq 0.002$ ( $C > 1.0\mu\text{F}$ )	
3	Initial measurement	Capacitance, $\text{Tan}\delta$	
	Rapid change of temperature	There shall be no evidence of deterioration.	$\theta_A = -55^{\circ}\text{C}$ , $\theta_B = +125^{\circ}\text{C}$ 5 cycles Duration: $t=30\text{min}$
	Vibration	There shall be no evidence of deterioration.	Amplitude 0.75mm or acceleration $98\text{m/s}^2$ (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: $390\text{m/s}^2$ , Pulse duration, 6ms
	Final measurement	$\Delta C/C \leq \pm 5\%$ (relative to the initial value) Increase of $\text{tan}\delta$ : $\leq 0.003$ ( $C \leq 1.0\mu\text{F}$ ) $\leq 0.002$ ( $C > 1.0\mu\text{F}$ ) IR: $\geq 50\%$ of the rated value	
4	climate sequence	Initial measurement	Capacitance, $\text{Tan}\delta$
		Dry heat	$+125^{\circ}\text{C}$ , 16h
		Damp heat, Cyclic	Test Db, Severity: b, the first cycle
		Cold	$-55^{\circ}\text{C}$ , 2h
		Low air pressure	There shall be no permanent breakdown, flashover or other harmful deformation when applying $U_R$ at the last 1 minute. $15^{\circ}\text{C} \sim 35^{\circ}\text{C}$ , 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 $\text{tan}\delta$ : $\leq 0.005$ ( $C \leq 1.0\mu\text{F}$ ) $\leq 0.003$ ( $C > 1.0\mu\text{F}$ ) IR: $\geq 50\%$ of the rated value



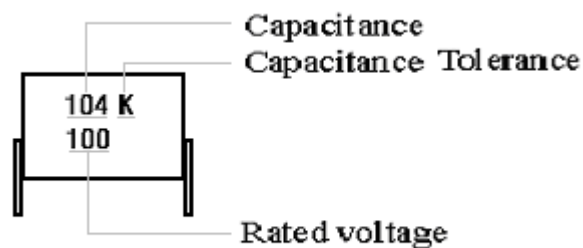
No.	Item	Performance	Test method (GB 7332(IEC 60384-2))
5	Damp heat steady state	There shall be no evidence of deterioration and the marking shall be legible. $\Delta C/C \leq \pm 5\%$ (relative to the initial value) Increase of $\tan \delta \leq 0.005$ IR: $\geq 50\%$ of the rated value	Temperature: $40^\circ\text{C} \pm 2^\circ\text{C}$ Humidity: $93 \pm \frac{2}{3} \% \text{RH}$ Duration: 56 days
6	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 $\tan \delta$ : $C \leq 1.0 \mu\text{F}, \leq 0.003$ ; $C > 1.0 \mu\text{F}, \leq 0.002$ IR: $\geq 50\%$ of the rated value	$+85^\circ\text{C}, 1.25 \times U_R$ 1 000h or $+125^\circ\text{C}, 1.25 \times U_c$ ( $U_c = 0.5 U_R$ ) 1 000h
7	Temperature characteristic	Measuring capacitance at test point b, d, f: Characteristic at lower category temperature $-55^\circ\text{C}$ : $-10\% \leq (C_b - C_d)/C_d \leq 0\%$ Characteristic at upper category temperature $+125^\circ\text{C}$ : $0\% \leq (C_f - C_d)/C_d \leq +18\%$ 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( $20 \pm 2$ ) $^\circ\text{C}$ , b( $-55 \pm 3$ ) $^\circ\text{C}$ , d( $20 \pm 2$ ) $^\circ\text{C}$ , f( $125 \pm 2$ ) $^\circ\text{C}$ , g( $20 \pm 2$ ) $^\circ\text{C}$
8	Charging and discharging	$\Delta C/C \leq \pm 5\%$ (relative to the initial value) Increase of $\tan \delta$ : $\leq 0.003$ ( $C \leq 1.0 \mu\text{F}$ ) $\leq 0.002$ ( $C > 1.0 \mu\text{F}$ ) IR: $\geq 50\%$ of the rated value	Ref. item 4.13 Times: 10 000 Duration of charging: 0.5s Duration of discharging: 0.5s Charging voltage: rated voltage Charging resistance: $220/C_N$ ( $\Omega$ ) or current intensity $\leq 1\text{A}$ (whichever is the less current intensity) Discharging resistance: $R = U_R / (10 \times C_N \times dV/dt)$ $C_N$ : rated capacitance ( $\mu\text{F}$ )

■ Quality ensuring test (before shipment):

Inspection item (each batch)	Inspection level (GB 2828)	
	IL	AQL
Appearance inspection	S-4	1.5%
Dimensions		
Capacitance	II	0.65%
Tangent of the loss angle		
Dielectric strength		
Insulation resistance		
Solderability	S-3	2.5%



### ■ Marking



### ■ Taping specification

1. **Taping Dimensions:** Refer to table 2
2. **Outline Drawing:** Refer to Fig 1 ~ Fig 3

**Table 2 Taping Dimensions**

Unit: mm

Specification	Code	Dimensions				Note
		P=7.5		P=10.0	Tolerance	
Code of Ammo Tapped		A301	A211	A402		Digit 12 to 15 of P/N
Taping type	—	Fig 1	Fig 2	Fig3	—	—
Lead dia.	d	0.5		0.5	±0.05	—
Taping pitch	P3	12.7		12.7	±1.0	—
Feed hole pitch	P0	12.7		12.7	±0.3	1mm(max)/20×P 0
Center of wire	P1	2.6	3.85	7.7	±0.7	—
Center of body	P2	6.35		12.7	±1.3	—
Pitch	P	7.5		10.0		
Component alignment	△S	0		0	±2.0	—
Pitch of taping wire	F	/	5.0	/	+0.6 -0.1	—
Height of component from tape center	H0	/	16.0	/	±0.5	—
Height of crangle from tape center	H	18.5	20.0	18.5	±0.5	
Carrier tape width	W	18.0		18.0	+1.0 -0.5	—
Hold down tape width	W0	10min		10min	—	—
Hole position	W1	9.0		9.0	±0.5	—
Hold down tape sition	W2	3.0max			—	—
Feed hole dia.	D0	4.0		4.0	±0.2	—
Tape thickness	t	0.7		0.7	±0.2	—

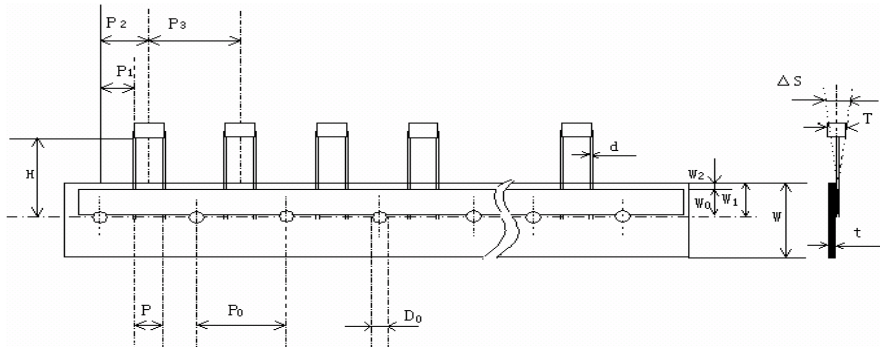


Fig 1

Specification	P=7.5mm
Code of Ammo	A301
Feed hole pitch P0 (mm)	12.7
Pitch of taping wire F(mm)	/
Height of crangle from tape center H(mm)	18.5

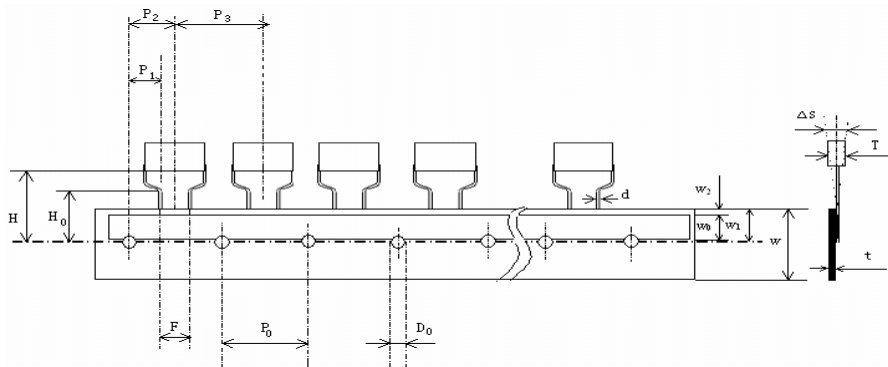


Fig 2

Specification	P=7.5mm
Code of Ammo	A211
Feed hole pitch P0 (mm)	12.7
Pitch of taping wire F(mm)	5.0
Height of crangle from tape center H(mm)	20

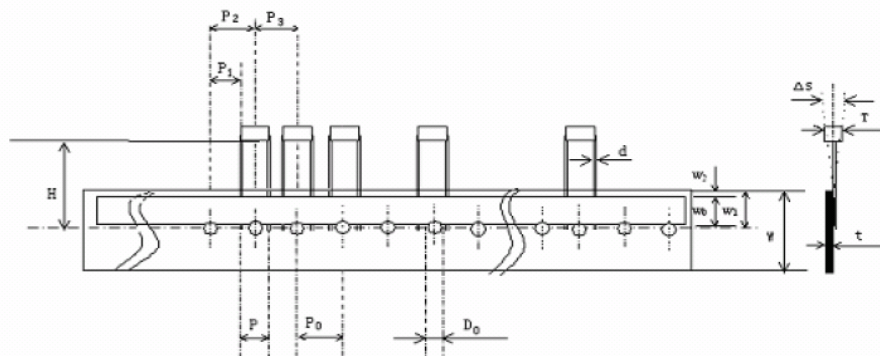
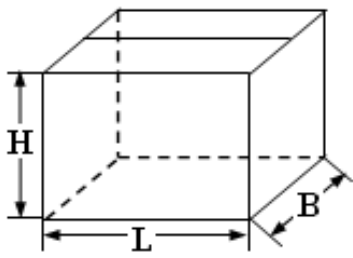


Fig3

Specification	P=10.0mm
Code of Ammo	A402
Feed hole pitch P0 (mm)	12.7
Pitch of taping wire F(mm)	/
Height of crangle from tape center H(mm)	18.5

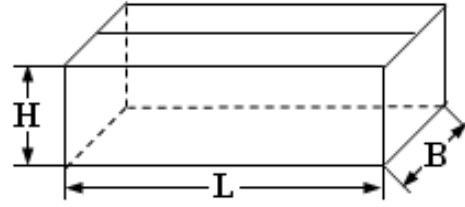
## ■ Packing box sizes(mm)

1. Out packing box for bulk



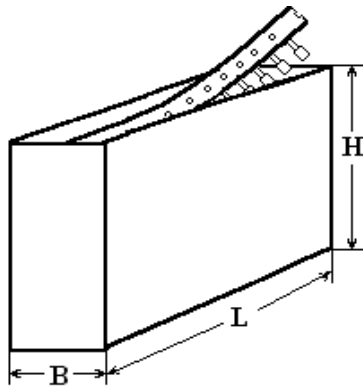
L:375±5  
B:375±5  
H:265±5

2. Inner packing box for bulk



L:355±3  
B:175±3  
H:118±3

3. Box sizes for Ammo-pack



L:330±3  
B:48±3  
H:260±3

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