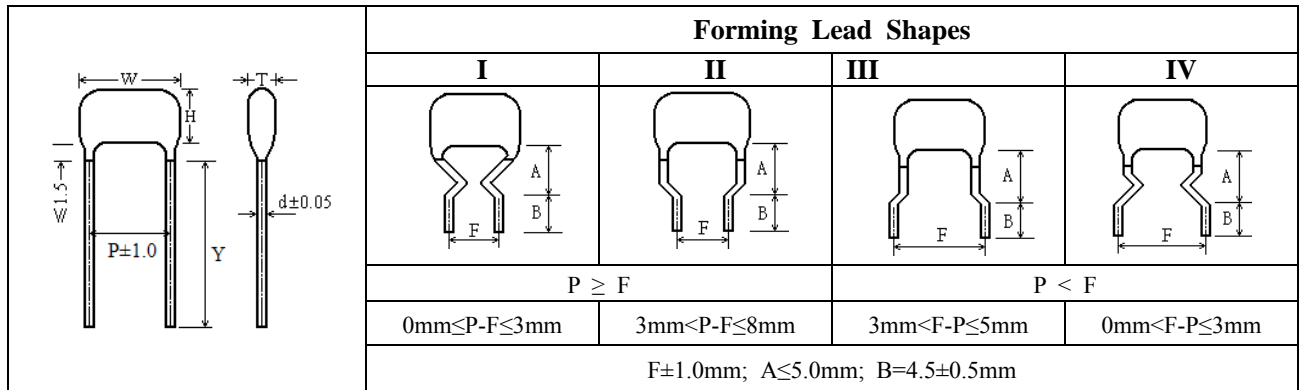


■ 外形图 Outline Drawing



■ 特点

- 金属化聚丙烯
- 高频损耗小
- 内部升温小
- 阻燃环氧粉末包封(UL94/V-0)

■ Features

- Metallized polypropylene structure
- Low loss at high frequency
- Small inherent temperature rise
- Flame retardant epoxy resin powder coating (UL94/V-0)

■ 主要用途

- 广泛应用于高频、直流、交流和脉冲电路中
- 适用于要求体积小，性能优异的彩色 S 校正电路
- 专为大屏幕显示器及彩电的 S 校正电路设计
- 适用于各种高频、大电流场合

■ Typical application

- Widely used in high frequency, DC, AC and pulse circuits
- Providing optimum performance with small size in S-correction circuits for colour TV set
- Specially designed for S-correction circuits of large screen monitor and colour TV
- Suitable for the situation where applies high frequency and high current pulse

■ 技术要求 Specifications

引用标准 Reference Standard	GB/T 14579(IEC 60384-17)
气候类别 Climatic Category	40/105/21
额定温度 Rated temperature	85°C
工作温度范围 Operating temperature	-40°C~105°C (+85°C to +105°C: decreasing factor 1.25% per °C for VR(dc))
额定电压 Rated Voltage	100V/160V, 250V, 400V, 630V, 1000V/1250V
电容量范围 Capacitance Range	0.0010 ~ 3.3μF
电容量偏差 Capacitance Tolerance	±5%(J), ±10% (K), ±20% (M)
耐电压 Voltage Proof	1.6U _R (5s)
损耗角正切 Dissipation Factor	≤10×10 ⁻⁴ (20°C, 1kHz)
绝缘电阻 Insulation Resistance	≥50 000MΩ, C _R ≤0.33μF ≥15 000s, C _R >0.33μF (20°C, 100V, 1min)

产品代码说明 Part number system

■ 18位产品代码说明如下：

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
W	2	2															

Digit 1 to 3 系列代码 Series code

W22= CBB21

Digit 4 to 5 直流额定电压 D.C. rated voltage

2A=100V 2C=160V 2D=200V 2E=250V

2G=400V 2J=630V 3A=1000V 3B=1250V

Digit 6 to 8 标称容量 Rated capacitance value

例如 For example: 103=10×10³pF=0.01μF

Digit 9 容量偏差 Capacitance tolerance

J=±5%, K=±10%, M=±20%

Digit 10 引线脚距 Pitch

3=7.5mm 4=10mm 5=12.5mm 6=15mm

8=20mm 9=22.5mm A=25mm C=30mm

Digit 11 内部特征码 Internal use

S=II型 S= CBB21 II Pattern

Digit 12 to 15 引线加工和包装代码 Lead form and packaging code

Digit 16 to 18 内部特征码 Internal use

Table 1 引线加工和包装代码 lead form and packing code

第12位 Digit 12		第13位 Digit 13		第14位 Digit 14		第15位 Digit 15	
代码 code	说明 explanation	代码 code	说明 explanation	代码 code	说明 explanation	代码 code	说明 explanation
A	弹带包装 ammo-pack	3	F=7.5mm	1	标示弯脚 kinked	A	产品在连续的两个载带孔之间 each cap. between two consecutive holes P3=12.7mm,H=20.0mm (For pitch=7.5mm)
		4	F=10.0mm			E	
6	F=15.0mm						
F	引线成型 lead kinked	4	F=10.0mm	0	B=4.5mm The length of B	0	B 的长度偏差±0.5mm B Length tolerance ±0.5mm
		6	F=15.0mm				
		7	F=17.5mm				
		8	F=20.0mm				
		9	F=22.5mm				
Y	直脚 straight lead “Y” in the figure above	代码 code	说明 explanation	0			引线长度偏差±0.5mm Length tolerance ±0.5mm
		45	引线长度 4.5mm lead length 4.5mm				

第12~15位代码“C000”表示标准的引线长度(20mm~30mm)

Digit12-15 code “C000”means standard lead length (20mm ~ 30mm)

■ 外形尺寸 Dimensions (mm)

Pattern II (Reduced sizes)

100Vdc (63Vac) /250Vdc(160Vac) [#]						
容量 C (μF)	Wmax	Hmax	Tmax	P	d	产品代码 Part number
0.010	9.8	7.7	4.0	7.5	0.6	W222A103-3S****+++
0.011	9.8	7.8	4.2	7.5	0.6	W222A113-3S****+++
0.012	9.8	7.9	4.3	7.5	0.6	W222A123-3S****+++
0.013	9.8	8.0	4.4	7.5	0.6	W222A133-3S****+++
0.015	9.8	7.8	4.2	7.5	0.6	W222A153-3S****+++
0.016	9.8	7.9	4.3	7.5	0.6	W222A163-3S****+++
0.018	9.8	8.1	4.4	7.5	0.6	W222A183-3S****+++
0.020	9.8	8.2	4.6	7.5	0.6	W222A203-3S****+++
0.022	9.8	8.4	4.8	7.5	0.6	W222A223-3S****+++
0.024	9.8	8.6	4.9	7.5	0.6	W222A243-3S****+++
0.027	9.8	7.6	4.0	7.5	0.6	W222A273-3S****+++
0.030	9.8	7.7	4.1	7.5	0.6	W222A303-3S****+++
0.033	9.8	7.9	4.2	7.5	0.6	W222A333-3S****+++
0.036	9.8	8.0	4.4	7.5	0.6	W222A363-3S****+++
0.039	9.8	8.1	4.5	7.5	0.6	W222A393-3S****+++
0.043	9.8	8.3	4.7	7.5	0.6	W222A433-3S****+++
0.047	9.8	8.5	4.8	7.5	0.6	W222A473-3S****+++
0.051	12.3	8.0	4.3	10.0	0.6	W222A513-4S****+++
0.056	12.3	8.1	4.5	10.0	0.6	W222A563-4S****+++
0.062	12.3	8.3	4.6	10.0	0.6	W222A623-4S****+++
0.068	12.3	8.5	4.8	10.0	0.6	W222A683-4S****+++
0.075	12.3	8.6	5.0	10.0	0.6	W222A753-4S****+++
0.082	12.3	8.8	5.2	10.0	0.6	W222A823-4S****+++
0.091	12.3	8.1	4.5	10.0	0.6	W222A913-4S****+++
0.10	12.3	8.3	4.7	10.0	0.6	W222A104-4S****+++
0.11	12.3	8.5	4.8	10.0	0.6	W222A114-4S****+++
0.12	12.3	8.6	5.0	10.0	0.6	W222A124-4S****+++
0.13	12.3	8.6	4.9	10.0	0.6	W222A134-4S****+++
0.15	12.3	8.9	5.2	10.0	0.6	W222A154-4S****+++
0.16	12.3	9.0	5.4	10.0	0.6	W222A164-4S****+++
0.18	12.3	9.3	5.6	10.0	0.6	W222A184-4S****+++
0.20	12.3	9.5	5.9	10.0	0.6	W222A204-4S****+++
0.22	12.3	9.8	6.1	10.0	0.6	W222A224-4S****+++
0.24	12.3	10.0	6.4	10.0	0.6	W222A244-4S****+++

100Vdc (63Vac) /250Vdc(160Vac)						
容量 C (μF)	Wmax	Hmax	Tmax	P	d	产品代码 Part number
0.27	17.5	10.5	5.3	15.0	0.6	W222A274-6S****+++
0.30	17.5	10.8	5.5	15.0	0.6	W222A304-6S****+++
0.33	17.5	11.0	5.8	15.0	0.6	W222A334-6S****+++
0.36	17.5	11.2	6.0	15.0	0.6	W222A364-6S****+++
0.39	17.5	11.4	6.2	15.0	0.6	W222A394-6S****+++
0.43	17.5	11.6	6.4	15.0	0.6	W222A434-6S****+++
0.47	17.5	11.9	6.6	15.0	0.6	W222A474-6S****+++
0.51	17.5	12.1	6.9	15.0	0.6	W222A514-6S****+++
0.56	17.5	12.4	7.2	15.0	0.6	W222A564-6S****+++
0.62	17.5	12.7	7.5	15.0	0.8	W222A624-6S****+++
0.68	17.5	13.5	7.8	15.0	0.8	W222A684-6S****+++
0.75	17.5	13.9	8.2	15.0	0.8	W222A754-6S****+++
0.82	17.5	14.2	8.5	15.0	0.8	W222A824-6S****+++
0.91	17.5	14.9	8.9	15.0	0.8	W222A914-6S****+++
1.0	17.5	15.0	9.3	15.0	0.8	W222A105-6S****+++
1.1	17.5	15.5	9.7	15.0	0.8	W222A115-6S****+++
1.2	25.2	14.8	7.5	22.5	0.8	W222A125-9S****+++
1.3	25.2	15.1	7.8	22.5	0.8	W222A135-9S****+++
1.5	25.2	15.6	8.3	22.5	0.8	W222A155-9S****+++
1.6	25.2	15.9	8.6	22.5	0.8	W222A165-9S****+++
1.8	25.2	16.4	9.1	22.5	0.8	W222A185-9S****+++
2.0	25.2	16.9	10.1	22.5	0.8	W222A205-9S****+++
2.2	25.2	18.3	9.9	22.5	0.8	W222A225-9S****+++
2.4	25.2	18.7	10.4	22.5	0.8	W222A245-9S****+++
2.7	25.2	19.3	10.9	22.5	0.8	W222A275-9S****+++
3.0	25.2	19.9	11.6	22.5	0.8	W222A305-9S****+++
3.3	25.2	20.5	12.1	22.5	0.8	W222A335-9S****+++

- Note: 1. “-”表示容量偏差。“-”=capacitance tolerance code, M=±20%,K=±10%,J=±5%
 2. “****”表示引线加工和包装代码（见 table1）。“****”=lead form and packing code (refer to table 1).
 3. “#”当额定电压时 250VDC 时，第 4~5 位代码是 2E。“#”when the rated voltage is 250Vdc, the digit 4~5 is 2E.

■ 外形尺寸 Dimensions (mm)

Pattern II (Reduced sizes)

400Vdc (200Vac)						
容量 C (μF)	Wmax	Hmax	Tmax	P	d	产品代码 Part number
0.010	9.8	7.8	4.1	7.5	0.6	W222G103-3S****++
0.011	9.8	7.9	4.2	7.5	0.6	W222G113-3S****++
0.012	9.8	8.0	4.4	7.5	0.6	W222G123-3S****++
0.013	9.8	8.1	4.5	7.5	0.6	W222G133-3S****++
0.015	9.8	8.4	4.7	7.5	0.6	W222G153-3S****++
0.016	9.8	8.5	4.8	7.5	0.6	W222G163-3S****++
0.018	9.8	8.7	5.0	7.5	0.6	W222G183-3S****++
0.020	9.8	8.9	5.3	7.5	0.6	W222G203-3S****++
0.022	9.8	9.1	5.5	7.5	0.6	W222G223-3S****++
0.024	12.3	8.0	4.3	10.0	0.6	W222G243-4S****++
0.027	12.3	8.1	4.5	10.0	0.6	W222G273-4S****++
0.030	12.3	8.3	4.7	10.0	0.6	W222G303-4S****++
0.033	12.3	8.5	4.8	10.0	0.6	W222G333-4S****++
0.036	12.3	8.6	5.0	10.0	0.6	W222G363-4S****++
0.039	12.3	8.7	5.0	10.0	0.6	W222G393-4S****++
0.043	12.3	8.8	5.2	10.0	0.6	W222G433-4S****++
0.047	12.3	9.0	5.4	10.0	0.6	W222G473-4S****++
0.051	12.3	9.2	5.6	10.0	0.6	W222G513-4S****++
0.056	12.3	9.4	5.8	10.0	0.6	W222G563-4S****++
0.062	12.3	8.9	5.2	10.0	0.6	W222G623-4S****++
0.068	12.3	9.1	5.4	10.0	0.6	W222G683-4S****++
0.075	12.3	9.3	5.7	10.0	0.6	W222G753-4S****++
0.082	12.3	9.5	5.9	10.0	0.6	W222G823-4S****++
0.091	12.3	9.8	6.1	10.0	0.6	W222G913-4S****++
0.10	12.3	10.0	6.4	10.0	0.6	W222G104-4S****++
0.11	12.3	10.3	6.6	10.0	0.6	W222G114-4S****++
0.12	17.5	10.7	5.5	15.0	0.6	W222G124-6S****++
0.13	17.5	10.9	5.7	15.0	0.6	W222G134-6S****++
0.15	17.5	11.2	6.0	15.0	0.6	W222G154-6S****++
0.16	17.5	11.3	6.1	15.0	0.6	W222G164-6S****++
0.18	17.5	11.6	6.4	15.0	0.6	W222G184-6S****++
0.20	17.5	11.9	6.7	15.0	0.6	W222G204-6S****++
0.22	17.5	12.2	7.0	15.0	0.6	W222G224-6S****++
0.24	17.5	12.5	7.3	15.0	0.6	W222G244-6S****++
0.27	17.5	12.9	7.6	15.0	0.8	W222G274-6S****++
0.30	17.5	13.7	8.0	15.0	0.8	W222G304-6S****++
0.33	17.5	14.1	8.4	15.0	0.8	W222G334-6S****++
0.36	17.5	14.4	8.7	15.0	0.8	W222G364-6S****++
0.39	17.5	14.7	9.0	15.0	0.8	W222G394-6S****++
0.43	17.5	15.1	9.4	15.0	0.8	W222G434-6S****++
0.47	17.5	15.5	9.8	15.0	0.8	W222G474-6S****++
0.51	25.2	14.8	7.6	22.5	0.8	W222G514-9S****++
0.56	25.2	15.2	7.9	22.5	0.8	W222G564-9S****++
0.62	25.2	15.6	8.3	22.5	0.8	W222G624-9S****++
0.68	25.2	15.9	9.1	22.5	0.8	W222G684-9S****++
0.75	25.2	16.3	9.6	22.5	0.8	W222G754-9S****++
0.82	25.2	16.7	10.0	22.5	0.8	W222G824-9S****++
0.91	25.2	17.2	10.5	22.5	0.8	W222G914-9S****++
1.0	25.2	17.7	10.9	22.5	0.8	W222G105-9S****++

630Vdc (220Vac) @						
容量 C (μF)	Wmax	Hmax	Tmax	P	d	产品代码 Part number
0.0010	10.0	7.9	4.3	7.5	0.6	W222J102-3S****++
0.0011	10.0	8.1	4.4	7.5	0.6	W222J112-3S****++
0.0012	10.0	8.2	4.5	7.5	0.6	W222J122-3S****++
0.0013	10.0	8.3	4.7	7.5	0.6	W222J132-3S****++
0.0015	10.0	8.1	4.4	7.5	0.6	W222J152-3S****++
0.0016	10.0	8.2	4.5	7.5	0.6	W222J162-3S****++
0.0018	10.0	7.8	4.2	7.5	0.6	W222J182-3S****++
0.0020	10.0	8.0	4.3	7.5	0.6	W222J202-3S****++
0.0022	10.0	8.1	4.5	7.5	0.6	W222J222-3S****++
0.0024	9.8	8.0	4.3	7.5	0.6	W222J242-3S****++
0.0027	9.8	8.1	4.5	7.5	0.6	W222J272-3S****++
0.0030	9.8	8.3	4.7	7.5	0.6	W222J302-3S****++
0.0033	9.8	8.5	4.8	7.5	0.6	W222J322-3S****++
0.0036	9.8	8.0	4.4	7.5	0.6	W222J362-3S****++
0.0039	9.8	8.2	4.5	7.5	0.6	W222J392-3S****++
0.0043	9.8	8.3	4.7	7.5	0.6	W222J432-3S****++
0.0047	9.8	8.5	4.9	7.5	0.6	W222J472-3S****++
0.0051	9.8	8.6	5.0	7.5	0.6	W222J512-3S****++
0.0056	9.8	8.8	5.2	7.5	0.6	W222J562-3S****++
0.0062	9.8	9.0	5.4	7.5	0.6	W222J622-3S****++
0.0068	12.3	8.0	4.4	10.0	0.6	W222J682-4S****++
0.0075	12.3	8.2	4.5	10.0	0.6	W222J752-4S****++
0.0082	12.3	8.3	4.7	10.0	0.6	W222J822-4S****++
0.0091	12.3	8.5	4.9	10.0	0.6	W222J912-4S****++
0.010	12.3	7.8	4.1	10.0	0.6	W222J103-4S****++
0.011	12.3	7.9	4.2	10.0	0.6	W222J113-4S****++
0.012	12.3	8.0	4.4	10.0	0.6	W222J123-4S****++
0.013	12.3	8.1	4.5	10.0	0.6	W222J133-4S****++
0.015	12.3	8.3	4.7	10.0	0.6	W222J153-4S****++
0.016	12.3	8.5	4.8	10.0	0.6	W222J163-4S****++
0.018	12.3	8.6	4.9	10.0	0.6	W222J183-4S****++
0.020	12.3	8.8	5.1	10.0	0.6	W222J203-4S****++
0.022	12.3	8.9	5.3	10.0	0.6	W222J223-4S****++
0.024	12.3	9.1	5.5	10.0	0.6	W222J243-4S****++

Note: 1. “-”表示容量偏差。“-”=capacitance tolerance code, M=±20%,K=±10%,J=±5%

2. “****”表示引线加工和包装代码（见 table1）。“****”=lead form and packing code (refer to table 1).

3. “@”不用作跨线，请参见抗干扰电容器。

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

■ 外形尺寸 Dimensions (mm)

Pattern II (Reduced sizes)

630Vdc (220Vac) [@]						
容量 C (μF)	Wmax	Hmax	Tmax	P	d	产品代码 Part number
0.027	12.3	9.4	5.7	10.0	0.6	W222J273-4S*****
0.030	12.3	9.6	6.0	10.0	0.6	W222J303-4S*****
0.033	12.3	9.9	6.2	10.0	0.6	W222J333-4S*****
0.036	12.3	10.1	6.4	10.0	0.6	W222J363-4S*****
0.039	12.3	10.3	6.7	10.0	0.6	W222J393-4S*****
0.043	17.5	10.7	5.4	15.0	0.6	W222J433-6S*****
0.047	17.5	10.8	5.6	15.0	0.6	W222J473-6S*****
0.051	17.5	11.0	5.8	15.0	0.6	W222J513-6S*****
0.056	17.5	11.2	6.0	15.0	0.6	W222J563-6S*****
0.062	17.5	11.4	6.2	15.0	0.6	W222J623-6S*****
0.068	17.5	11.7	6.5	15.0	0.6	W222J683-6S*****
0.075	17.5	11.9	6.7	15.0	0.6	W222J753-6S*****
0.082	17.5	12.2	7.0	15.0	0.6	W222J823-6S*****
0.091	17.5	12.5	7.3	15.0	0.6	W222J913-6S*****
0.10	17.5	12.8	7.6	15.0	0.8	W222J104-6S*****
0.11	17.5	13.6	7.9	15.0	0.8	W222J114-6S*****
0.12	17.5	13.9	8.2	15.0	0.8	W222J124-6S*****
0.13	17.5	14.2	8.5	15.0	0.8	W222J134-6S*****
0.15	17.5	14.7	9.0	15.0	0.8	W222J154-6S*****
0.16	17.5	15.0	9.3	15.0	0.8	W222J164-6S*****
0.18	17.5	15.5	9.8	15.0	0.8	W222J184-6S*****
0.20	17.5	16.0	10.3	15.0	0.8	W222J204-6S*****
0.22	25.2	15.2	7.9	22.5	0.8	W222J224-9S*****
0.24	25.2	15.5	8.2	22.5	0.8	W222J244-9S*****
0.27	25.2	15.9	9.2	22.5	0.8	W222J274-9S*****
0.30	25.2	16.4	9.6	22.5	0.8	W222J304-9S*****
0.33	25.2	16.8	10.0	22.5	0.8	W222J334-9S*****
0.36	25.2	17.2	10.4	22.5	0.8	W222J364-9S*****
0.39	25.2	17.6	10.8	22.5	0.8	W222J394-9S*****
0.43	25.2	18.1	11.3	22.5	0.8	W222J434-9S*****
0.47	25.2	18.6	11.8	22.5	0.8	W222J474-9S*****
0.51	25.2	19.0	12.2	22.5	0.8	W222J514-9S*****
0.56	25.2	19.6	12.8	22.5	0.8	W222J564-9S*****

1 000/1 250Vdc [#] (400Vac)						
容量 C (μF)	Wmax	Hmax	Tmax	P	d	产品代码 Part number
0.0010	10.0	7.9	4.3	7.5	0.6	W223A102-3S*****
0.0011	10.0	8.1	4.4	7.5	0.6	W223A112-3S*****
0.0012	10.0	8.2	4.5	7.5	0.6	W223A122-3S*****
0.0013	10.0	8.3	4.7	7.5	0.6	W223A132-3S*****
0.0015	10.0	8.1	4.4	7.5	0.6	W223A152-3S*****
0.0016	10.0	8.2	4.5	7.5	0.6	W223A162-3S*****
0.0018	10.0	7.8	4.2	7.5	0.6	W223A182-3S*****
0.0020	10.0	8.0	4.3	7.5	0.6	W223A202-3S*****
0.0022	10.0	8.1	4.5	7.5	0.6	W223A222-3S*****
0.0024	10.0	7.7	4.0	7.5	0.6	W223A242-3S*****
0.0027	10.0	7.8	4.2	7.5	0.6	W223A272-3S*****
0.0030	10.0	8.0	4.4	7.5	0.6	W223A302-3S*****
0.0033	10.0	8.2	4.5	7.5	0.6	W223A332-3S*****
0.0036	10.0	8.3	4.7	7.5	0.6	W223A362-3S*****
0.0039	10.0	8.4	4.8	7.5	0.6	W223A392-3S*****
0.0043	10.0	8.2	4.5	7.5	0.6	W223A432-3S*****
0.0047	10.0	8.3	4.7	7.5	0.6	W223A472-3S*****
0.0051	10.0	8.5	4.8	7.5	0.6	W223A512-3S*****
0.0056	10.0	8.7	5.0	7.5	0.6	W223A562-3S*****
0.0062	10.0	8.7	5.0	7.5	0.6	W223A622-3S*****
0.0068	12.0	8.9	5.2	10.0	0.6	W223A682-4S*****
0.0075	12.0	9.1	5.4	10.0	0.6	W223A752-4S*****
0.0082	12.0	9.3	5.6	10.0	0.6	W223A822-4S*****
0.0091	12.0	9.5	5.9	10.0	0.6	W223A912-4S*****

- Note: 1. “-”表示容量偏差。“-”=capacitance tolerance code, M=±20%,K=±10%,J=±5%
2. “*****”表示引线加工和包装代码（见 table1）。“*****”=lead form and packing code (refer to table 1).
3. “#”当额定电压时 1250VDC 是，第 4-5 位代码是 3B。when the rated voltage is 1250Vdc, the digit 4~5 is 3B.
4. “@”不用作跨线，请参见抗干扰电容器
“@” Not suitable for across-the-line applications. Pls refer to Interference Suppression Capacitors.

■ 外形尺寸 Dimensions (mm)
Pattern I (High performance)

100Vdc (63Vac) /160Vdc(90Vac) [#]						
容量 C (μF)	Wmax	Hmax	Tmax	P	d	产品代码 Part number
0.010	10.0	10.0	6.0	7.5	0.6	W222A103-30****++
0.011	10.0	10.0	6.0	7.5	0.6	W222A113-30****++
0.012	10.0	10.5	6.5	7.5	0.6	W222A123-30****++
0.013	10.0	10.5	6.5	7.5	0.6	W222A133-30****++
0.015	10.0	11.0	7.0	7.5	0.6	W222A153-30****++
0.016	10.0	11.0	7.0	7.5	0.6	W222A163-30****++
0.018	10.0	11.0	7.5	7.5	0.6	W222A183-30****++
0.020	10.0	9.0	5.0	7.5	0.6	W222A203-30****++
0.022	10.0	9.0	5.5	7.5	0.6	W222A223-30****++
0.024	10.0	9.0	5.5	7.5	0.6	W222A243-30****++
0.027	10.0	9.5	5.5	7.5	0.6	W222A273-30****++
0.030	10.0	9.5	6.0	7.5	0.6	W222A303-30****++
0.033	10.0	10.0	6.0	7.5	0.6	W222A333-30****++
0.036	10.0	10.0	6.0	7.5	0.6	W222A363-30****++
0.039	10.0	10.0	6.5	7.5	0.6	W222A393-30****++
0.043	10.0	10.5	6.5	7.5	0.6	W222A433-30****++
0.047	10.0	10.5	7.0	7.5	0.6	W222A473-30****++
0.051	10.0	9.0	5.5	7.5	0.6	W222A513-30****++
0.056	10.0	9.0	5.5	7.5	0.6	W222A563-30****++
0.062	10.0	9.5	5.5	7.5	0.6	W222A623-30****++
0.068	10.0	9.5	6.0	7.5	0.6	W222A683-30****++
0.075	10.0	9.5	6.0	7.5	0.6	W222A753-30****++
0.082	10.0	10.5	6.0	7.5	0.6	W222A823-30****++
0.091	10.0	10.5	6.0	7.5	0.6	W222A913-30****++
0.10	10.0	10.5	6.5	7.5	0.6	W222A104-30****++
0.11	10.0	11.0	6.5	7.5	0.6	W222A114-30****++
0.12	10.0	11.0	6.5	7.5	0.6	W222A124-30****++
0.13	13.0	10.5	6.0	10.0	0.6	W222A134-40****++
0.15	13.0	11.0	6.5	10.0	0.6	W222A154-40****++
0.16	13.0	11.0	6.5	10.0	0.6	W222A164-40****++
0.18	13.0	12.0	6.5	10.0	0.6	W222A184-40****++
0.20	13.0	12.0	7.0	10.0	0.6	W222A204-40****++
0.22	13.0	12.5	7.0	10.0	0.6	W222A224-40****++
0.24	13.0	12.5	7.5	10.0	0.6	W222A244-40****++
0.27	13.0	13.0	7.5	10.0	0.6	W222A274-40****++

100Vdc (63Vac) /160Vdc(90Vac) [#]						
容量 C (μF)	Wmax	Hmax	Tmax	P	d	产品代码 Part number
0.30	19.0	11.5	6.5	15.0	0.6	W222A304-60****++
0.33	19.0	12.0	6.5	15.0	0.6	W222A334-60****++
0.36	19.0	12.0	7.0	15.0	0.6	W222A364-60****++
0.39	19.0	12.5	7.0	15.0	0.6	W222A394-60****++
0.43	19.0	12.5	7.5	15.0	0.6	W222A434-60****++
0.47	19.0	13.0	7.5	15.0	0.6	W222A474-60****++
0.51	19.0	13.0	8.0	15.0	0.6	W222A514-60****++
0.56	19.0	13.5	8.0	15.0	0.6	W222A564-60****++
0.62	19.0	13.5	8.5	15.0	0.6	W222A624-60****++
0.68	19.0	14.0	9.0	15.0	0.6	W222A684-60****++
0.75	19.0	14.5	9.5	15.0	0.8	W222A754-60****++
0.82	19.0	15.0	9.5	15.0	0.8	W222A824-60****++
0.91	24.0	15.0	8.5	20.0	0.8	W222A914-80****++
1.0	24.0	15.5	8.5	20.0	0.8	W222A105-80****++
1.1	24.0	16.0	9.0	20.0	0.8	W222A115-80****++
1.2	24.0	16.0	9.5	20.0	0.8	W222A125-80****++
1.3	24.0	16.5	9.5	20.0	0.8	W222A135-80****++
1.5	24.0	17.0	10.5	20.0	0.8	W222A155-80****++
1.6	24.0	17.5	11.0	20.0	0.8	W222A165-80****++
1.8	24.0	18.0	11.5	20.0	0.8	W222A185-80****++
2.0	29.0	17.5	10.5	25.0	0.8	W222A205-A0****++
2.2	29.0	18.0	11.0	25.0	0.8	W222A225-A0****++
2.4	29.0	18.5	11.5	25.0	0.8	W222A245-A0****++
2.7	29.0	20.0	11.5	25.0	0.8	W222A275-A0****++
3.0	29.0	20.5	12.0	25.0	0.8	W222A305-A0****++
3.3	29.0	21.0	13.0	25.0	0.8	W222A335-A0****++

- Note: 1. “-”表示容量偏差。“-”=capacitance tolerance code, M=±20%,K=±10%,J=±5%
 2. “****”表示引线加工和包装代码（见 table1）。“****”=lead form and packing code (refer to table 1).
 3. “#”当额定电压是 160VDC 时，第 4~5 位代码是 2C。“#”when the rated voltage is 160Vdc, the digit 4~5 is 2C.

■ 外形尺寸 Dimensions (mm)

Pattern I (High performance)

250Vdc (160Vac)						
容量 C(μF)	Wm ax	Hma x	Tma x	P	d	产品代码 Part number
0.010	10.0	10.0	6.0	7.5	0.6	W222E103-30****+++
0.011	10.0	10.0	6.0	7.5	0.6	W222E113-30****+++
0.012	10.0	10.5	6.5	7.5	0.6	W222E123-30****+++
0.013	10.0	9.0	6.5	7.5	0.6	W222E133-30****+++
0.015	10.0	9.5	6.0	7.5	0.6	W222E153-30****+++
0.016	10.0	9.5	6.0	7.5	0.6	W222E163-30****+++
0.018	10.0	10.0	6.0	7.5	0.6	W222E183-30****+++
0.020	10.0	9.0	5.0	7.5	0.6	W222E203-30****+++
0.022	10.0	9.0	5.5	7.5	0.6	W222E223-30****+++
0.024	10.0	9.5	5.5	7.5	0.6	W222E243-30****+++
0.027	10.0	9.5	5.5	7.5	0.6	W222E273-30****+++
0.030	10.0	9.5	6.0	7.5	0.6	W222E303-30****+++
0.033	10.0	10.0	6.0	7.5	0.6	W222E333-30****+++
0.036	10.0	10.0	6.0	7.5	0.6	W222E363-30****+++
0.039	10.0	10.0	6.5	7.5	0.6	W222E393-30****+++
0.043	10.0	10.5	6.5	7.5	0.6	W222E433-30****+++
0.047	10.0	10.5	7.0	7.5	0.6	W222E473-30****+++
0.051	13.0	10.0	6.0	10.0	0.6	W222E513-40****+++
0.056	13.0	10.0	6.5	10.0	0.6	W222E563-40****+++
0.062	13.0	10.5	6.5	10.0	0.6	W222E623-40****+++
0.068	13.0	10.5	7.0	10.0	0.6	W222E683-40****+++
0.075	13.0	11.0	7.0	10.0	0.6	W222E753-40****+++
0.082	13.0	10.5	6.0	10.0	0.6	W222E823-40****+++
0.091	13.0	11.0	6.0	10.0	0.6	W222E913-40****+++
0.10	13.0	11.0	6.5	10.0	0.6	W222E104-40****+++
0.11	13.0	11.0	6.5	10.0	0.6	W222E114-40****+++
0.12	13.0	11.5	7.0	10.0	0.6	W222E124-40****+++
0.13	19.0	12.0	6.5	15.0	0.6	W222E134-60****+++
0.15	19.0	12.0	7.0	15.0	0.6	W222E154-60****+++
0.16	19.0	12.5	7.0	15.0	0.6	W222E164-60****+++
0.18	19.0	13.5	7.0	15.0	0.6	W222E184-60****+++
0.20	19.0	14.0	7.0	15.0	0.6	W222E204-60****+++
0.22	19.0	14.0	7.5	15.0	0.6	W222E224-60****+++
0.24	19.0	14.5	7.5	15.0	0.6	W222E244-60****+++
0.27	19.0	15.0	8.0	15.0	0.6	W222E274-60****+++
0.30	19.0	15.0	8.5	15.0	0.6	W222E304-60****+++
0.33	19.0	15.5	9.0	15.0	0.6	W222E334-60****+++

250Vdc (160Vac)						
容量 C(μF)	Wm ax	Hma x	Tma x	P	d	产品代码 Part number
0.36	24.0	14.0	8.5	20.0	0.8	W222E364-80****+++
0.39	24.0	14.5	8.5	20.0	0.8	W222E394-80****+++
0.43	24.0	15.0	8.5	20.0	0.8	W222E434-80****+++
0.47	24.0	15.0	9.0	20.0	0.8	W222E474-80****+++
0.51	24.0	15.5	9.5	20.0	0.8	W222E514-80****+++
0.56	24.0	16.0	10.0	20.0	0.8	W222E564-80****+++
0.62	24.0	16.5	10.0	20.0	0.8	W222E624-80****+++
0.68	24.0	17.5	10.5	20.0	0.8	W222E684-80****+++
0.75	24.0	18.0	11.0	20.0	0.8	W222E754-80****+++
0.82	24.0	18.5	11.5	20.0	0.8	W222E824-80****+++
0.91	24.0	19.0	12.0	20.0	0.8	W222E914-80****+++
1.0	29.0	17.5	9.0	25.0	0.8	W222E105-A0****+++
1.1	29.0	18.0	9.5	25.0	0.8	W222E115-A0****+++
1.2	29.0	18.0	10.0	25.0	0.8	W222E125-A0****+++
1.3	29.0	18.5	10.0	25.0	0.8	W222E135-A0****+++
1.5	29.0	19.5	11.0	25.0	0.8	W222E155-A0****+++
1.6	29.0	20.5	10.5	25.0	0.8	W222E165-A0****+++
1.8	29.0	21.5	11.5	25.0	0.8	W222E185-A0****+++
2.0	29.0	22.0	12.0	25.0	0.8	W222E205-A0****+++
2.2	29.0	22.5	12.5	25.0	0.8	W222E225+A0****+++
2.4	29.0	23.0	13.0	25.0	0.8	W222E245+A0****+++
2.7	29.0	24.0	14.0	25.0	0.8	W222E275+A0****+++
3.0	29.0	24.5	14.5	25.0	0.8	W222E305+A0****+++
3.3	29.0	25.5	15.5	25.0	0.8	W222E335+A0****+++

Note: 1. “-”表示容量偏差。“-”=capacitance tolerance code, M=±20%,K=±10%,J=±5%

2. “****”表示引线加工和包装代码（见 table1）。“****”=lead form and packing code (refer to table 1).

■ 外形尺寸 Dimensions (mm)
Pattern I (High performance)

400Vdc (200Vac)						
容量 C (μF)	Wmax	Hmax	Tmax	P	d	产品代码 Part number
0.010	10.0	10.0	6.0	7.5	0.6	W222G103-30****++
0.011	10.0	10.0	6.0	7.5	0.6	W222G113-30****++
0.012	10.0	10.5	6.5	7.5	0.6	W222G123-30****++
0.013	10.0	10.5	6.5	7.5	0.6	W222G133-30****++
0.015	10.0	11.0	7.0	7.5	0.6	W222G153-30****++
0.016	10.0	11.0	7.0	7.5	0.6	W222G163-30****++
0.018	10.0	11.0	7.5	7.5	0.6	W222G183-30****++
0.020	10.0	11.5	7.5	7.5	0.6	W222G203-30****++
0.022	10.0	12.0	8.0	7.5	0.6	W222G223-30****++
0.024	13.0	10.5	6.5	10.0	0.6	W222G243-40****++
0.027	13.0	12.0	6.5	10.0	0.6	W222G273-40****++
0.030	13.0	12.0	6.5	10.0	0.6	W222G303-40****++
0.033	13.0	12.0	7.0	10.0	0.6	W222G333-40****++
0.036	13.0	12.5	7.0	10.0	0.6	W222G363-40****++
0.039	13.0	12.5	7.0	10.0	0.6	W222G393-40****++
0.043	13.0	13.0	7.5	10.0	0.6	W222G433-40****++
0.047	13.0	13.0	8.0	10.0	0.6	W222G473-40****++
0.051	13.0	13.5	8.0	10.0	0.6	W222G513-40****++
0.056	13.0	14.0	8.5	10.0	0.6	W222G563-40****++
0.062	19.0	12.0	6.5	15.0	0.6	W222G623-60****++
0.068	19.0	13.5	6.5	15.0	0.6	W222G683-60****++
0.075	19.0	13.5	6.5	15.0	0.6	W222G753-60****++
0.082	19.0	13.5	7.0	15.0	0.6	W222G823-60****++
0.091	19.0	14.0	7.0	15.0	0.6	W222G913-60****++
0.10	19.0	14.5	7.5	15.0	0.6	W222G104-60****++
0.11	19.0	14.5	8.0	15.0	0.6	W222G114-60****++
0.12	19.0	15.0	8.0	15.0	0.6	W222G124-60****++
0.13	19.0	15.0	8.5	15.0	0.6	W222G134-60****++
0.15	19.0	15.5	9.0	15.0	0.6	W222G154-60****++
0.16	19.0	16.0	9.0	15.0	0.8	W222G164-60****++
0.18	24.0	15.0	8.0	20.0	0.8	W222G184-80****++
0.20	24.0	15.0	8.5	20.0	0.8	W222G204-80****++
0.22	24.0	16.0	8.5	20.0	0.8	W222G224-80****++
0.24	24.0	16.0	9.0	20.0	0.8	W222G244-80****++
0.27	24.0	16.5	9.5	20.0	0.8	W222G274-80****++
0.30	24.0	17.0	10.0	20.0	0.8	W222G304-80****++
0.33	24.0	17.5	10.0	20.0	0.8	W222G334-80****++
0.36	29.0	16.5	9.5	25.0	0.8	W222G364-A0****++
0.39	29.0	17.0	9.5	25.0	0.8	W222G394-A0****++
0.43	29.0	17.5	10.0	25.0	0.8	W222G434-A0****++
0.47	29.0	18.5	10.0	25.0	0.8	W222G474-A0****++
0.51	29.0	19.0	10.5	25.0	0.8	W222G514-A0****++
0.56	29.0	19.5	11.0	25.0	0.8	W222G564-A0****++
0.62	29.0	20.0	11.5	25.0	0.8	W222G624-A0****++
0.68	29.0	19.5	12.0	25.0	0.8	W222G684-A0****++
0.75	29.0	21.0	12.5	25.0	0.8	W222G754-A0****++
0.82	34.0	20.5	12.0	30.0	0.8	W222G824-C0****++
0.91	34.0	21.0	12.5	30.0	0.8	W222G914-C0****++
1.0	34.0	21.5	13.0	30.0	0.8	W222G105-C0****++

630Vdc (220Vac)						
容量 C (μF)	Wmax	Hmax	Tmax	P	d	产品代码 Part number
0.0010	10.0	9.0	5.5	7.5	0.6	W222J102-30****++
0.0011	10.0	9.0	5.5	7.5	0.6	W222J112-30****++
0.0012	10.0	9.0	5.0	7.5	0.6	W222J122-30****++
0.0013	10.0	9.0	5.0	7.5	0.6	W222J132-30****++
0.0015	10.0	9.0	5.0	7.5	0.6	W222J152-30****++
0.0016	10.0	9.0	5.5	7.5	0.6	W222J162-30****++
0.0018	10.0	9.0	5.5	7.5	0.6	W222J182-30****++
0.0020	10.0	9.0	5.5	7.5	0.6	W222J202-30****++
0.0022	10.0	9.0	6.0	7.5	0.6	W222J222-30****++
0.0024	10.0	9.0	5.0	7.5	0.6	W222J242-30****++
0.0027	10.0	9.0	5.0	7.5	0.6	W222J272-30****++
0.0030	10.0	9.0	5.0	7.5	0.6	W222J302-30****++
0.0033	10.0	9.0	5.5	7.5	0.6	W222J332-30****++
0.0036	10.0	9.0	5.5	7.5	0.6	W222J362-30****++
0.0039	10.0	9.0	5.5	7.5	0.6	W222J392-30****++
0.0043	10.0	9.5	6.0	7.5	0.6	W222J432-30****++
0.0047	10.0	9.5	6.0	7.5	0.6	W222J472-30****++
0.0051	10.0	9.5	6.5	7.5	0.6	W222J512-30****++
0.0056	10.0	10.0	6.5	7.5	0.6	W222J562-30****++
0.0062	10.0	10.0	6.5	7.5	0.6	W222J622-30****++
0.0068	12.5	9.0	5.5	10.0	0.6	W222J682-40****++
0.0075	12.5	9.0	6.0	10.0	0.6	W222J752-40****++
0.0082	12.5	9.0	6.0	10.0	0.6	W222J822-40****++
0.0091	12.5	9.5	6.0	10.0	0.6	W222J912-40****++
0.010	13.0	11.0	6.0	10.0	0.6	W222J103-40****++
0.011	13.0	11.5	6.5	10.0	0.6	W222J113-40****++
0.012	13.0	11.5	6.5	10.0	0.6	W222J123-40****++
0.013	13.0	11.5	7.0	10.0	0.6	W222J133-40****++
0.015	13.0	12.0	7.0	10.0	0.6	W222J153-40****++
0.016	13.0	12.0	7.5	10.0	0.6	W222J163-40****++
0.018	13.0	13.0	7.5	10.0	0.6	W222J183-40****++
0.020	13.0	13.5	8.0	10.0	0.6	W222J203-40****++
0.022	13.0	13.5	8.0	10.0	0.6	W222J223-40****++

- Note: 1. “-”表示容量偏差。“-”=capacitance tolerance code, M=±20%,K=±10%,J=±5%
 2. “****”表示引线加工和包装代码（见 table1）。“****”=lead form and packing code (refer to table 1).
 3. “@”不用作跨线，请参见抗干扰电容器
 “@”Not suitable for across-the-line applications. Pls refer to Interference Suppression Capacitors.

■ 外形尺寸 Dimensions (mm)

Pattern I (High performance)

630Vdc (220Vac)						
容量 C(μF)	Wmax	Hmax	Tmax	P	d	产品代码 Part number
0.024	19.0	12.0	6.5	15.0	0.6	W222J243-60****+++
0.027	19.0	12.0	7.0	15.0	0.6	W222J273-60****+++
0.030	19.0	12.5	7.0	15.0	0.6	W222J303-60****+++
0.033	19.0	12.5	7.5	15.0	0.6	W222J333-60****+++
0.036	19.0	13.0	8.0	15.0	0.6	W222J363-60****+++
0.039	19.0	13.0	8.0	15.0	0.6	W222J393-60****+++
0.043	19.0	13.5	8.0	15.0	0.6	W222J433-60****+++
0.047	19.0	13.5	8.5	15.0	0.6	W222J473-60****+++
0.051	19.0	14.0	9.0	15.0	0.8	W222J513-60****+++
0.056	19.0	15.0	8.5	15.0	0.8	W222J563-60****+++
0.062	19.0	15.5	9.0	15.0	0.8	W222J623-60****+++
0.068	24.0	14.5	8.0	20.0	0.8	W222J683-80****+++
0.075	24.0	15.0	8.0	20.0	0.8	W222J753-80****+++
0.082	24.0	15.0	8.5	20.0	0.8	W222J823-80****+++
0.091	24.0	15.5	8.5	20.0	0.8	W222J913-80****+++
0.10	24.0	16.0	9.0	20.0	0.8	W222J104-80****+++
0.11	24.0	16.0	9.5	20.0	0.8	W222J114-80****+++
0.12	24.0	16.5	10.0	20.0	0.8	W222J124-80****+++
0.13	24.0	17.0	10.0	20.0	0.8	W222J134-80****+++
0.15	24.0	17.5	10.5	20.0	0.8	W222J154-80****+++
0.16	24.0	18.0	11.0	20.0	0.8	W222J164-80****+++
0.18	24.0	19.5	11.0	20.0	0.8	W222J184-80****+++
0.20	29.0	19.0	10.0	25.0	0.8	W222J204-A0****+++
0.22	29.0	19.5	10.0	25.0	0.8	W222J224-A0****+++
0.24	29.0	20.0	10.5	25.0	0.8	W222J244-A0****+++
0.27	29.0	20.5	11.5	25.0	0.8	W222J274-A0****+++
0.30	29.0	21.5	11.5	25.0	0.8	W222J304-A0****+++
0.33	29.0	22.0	12.0	25.0	0.8	W222J334-A0****+++
0.36	29.0	22.5	12.5	25.0	0.8	W222J364-A0****+++
0.39	34.0	20.5	12.5	30.0	0.8	W222J394-C0****+++
0.43	34.0	21.5	13.0	30.0	0.8	W222J434-C0****+++
0.47	34.0	22.0	13.5	30.0	0.8	W222J474-C0****+++
0.51	34.0	22.5	14.0	30.0	0.8	W222J514-C0****+++
0.56	34.0	23.0	14.5	30.0	0.8	W222J564-C0****+++

1 000Vdc (400Vac)						
容量 C(μF)	Wmax	Hmax	Tmax	P	d	产品代码 Part number
0.0010	10.0	9.0	5.5	7.5	0.6	W223A102-30****+++
0.0011	10.0	9.0	5.5	7.5	0.6	W223A112-30****+++
0.0012	10.0	9.0	5.0	7.5	0.6	W223A122-30****+++
0.0013	10.0	9.0	5.0	7.5	0.6	W223A132-30****+++
0.0015	10.0	9.0	5.0	7.5	0.6	W223A152-30****+++
0.0016	10.0	9.0	5.5	7.5	0.6	W223A162-30****+++
0.0018	10.0	9.0	5.5	7.5	0.6	W223A182-30****+++
0.0020	10.0	9.0	5.5	7.5	0.6	W223A202-30****+++
0.0022	10.0	9.0	6.0	7.5	0.6	W223A222-30****+++
0.0024	10.0	10.0	6.0	7.5	0.6	W223A242-30****+++
0.0027	10.0	10.0	6.0	7.5	0.6	W223A272-30****+++
0.0030	10.0	10.0	6.5	7.5	0.6	W223A302-30****+++
0.0033	10.0	10.0	6.5	7.5	0.6	W223A332-30****+++
0.0036	10.0	10.5	7.0	7.5	0.6	W223A362-30****+++
0.0039	10.0	10.5	7.0	7.5	0.6	W223A392-30****+++
0.0043	10.0	10.5	7.0	7.5	0.6	W223A432-30****+++
0.0047	10.0	11.0	7.5	7.5	0.6	W223A472-30****+++
0.0051	10.0	11.0	7.5	7.5	0.6	W223A512-30****+++
0.0056	10.0	11.5	8.0	7.5	0.6	W223A562-30****+++
0.0062	10.0	11.5	8.5	7.5	0.6	W223A622-30****+++
0.0068	12.5	10.5	7.0	10.0	0.6	W223A682-40****+++
0.0075	12.5	10.5	7.0	10.0	0.6	W223A752-40****+++
0.0082	12.5	10.5	7.0	10.0	0.6	W223A822-40****+++
0.0091	12.5	11.0	7.5	10.0	0.6	W223A912-40****+++

Note: 1. “-”表示容量偏差。“-”=capacitance tolerance code, M=±20%,K=±10%,J=±5%

2. “****”表示引线加工和包装代码（见 table1）。“****”=lead form and packing code (refer to table 1).

3. “@”不用作跨线，请参见抗干扰电容器

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

■ Maximum permissible voltage change per unit of time

Pattern I

Rated Voltage (V)	Max dV/dt(V/us)					
	P=7.5mm	P=10mm	P=15mm	P=20mm	P=25mm	P=30mm
100/160	180	150	110	80	60	/
200/250	660	560	310	150	110	/
400	900	780	600	300	180	120
630	1500	1200	900	400	220	150
1000	2500	2200	/	/	/	/

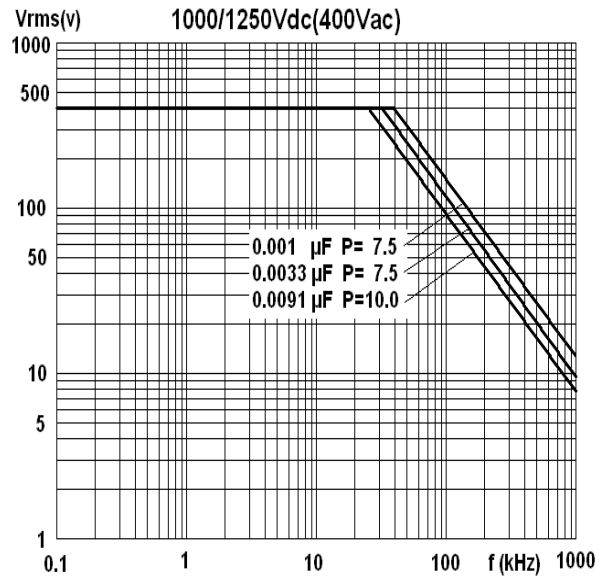
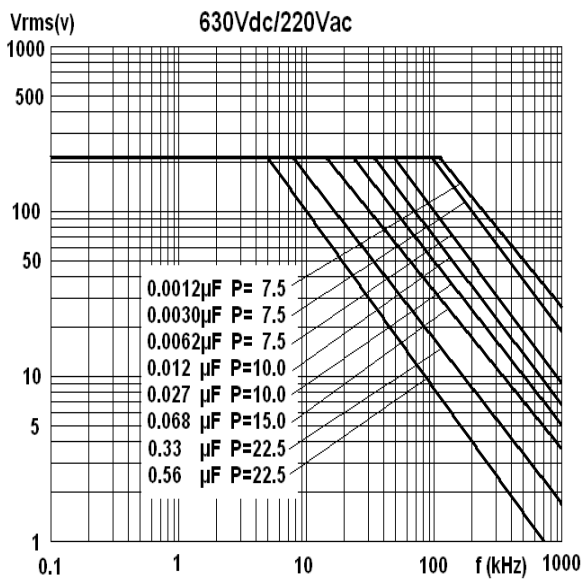
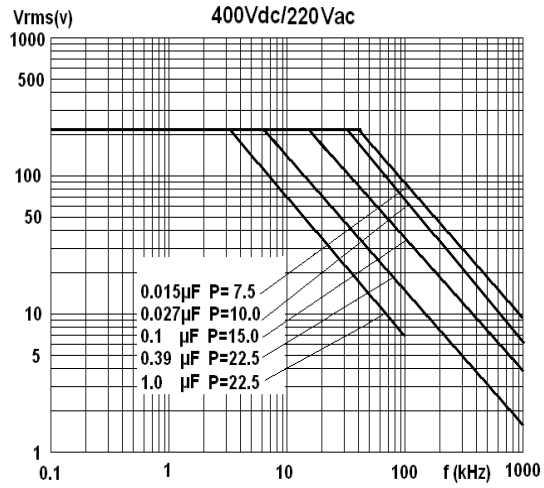
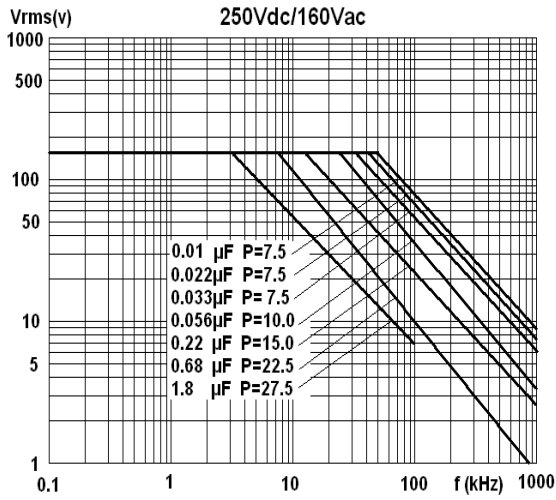
Pattern II

Rated Voltage (V)	Max dV/dt(V/us)			
	P=7.5mm	P=10mm	P=15mm	P=22.5mm
100/250	660	560	310	130
400	900	780	600	300
630	1500	1200	900	400
1000/1250	2500	2200	/	/

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



Note: sinusoidal wave-form、environment temperature $\leq 85^{\circ}\text{C}$, internal temperature rise $\Delta T=10^{\circ}\text{C}$, p (pitch) in mm.

Test Method And Performance

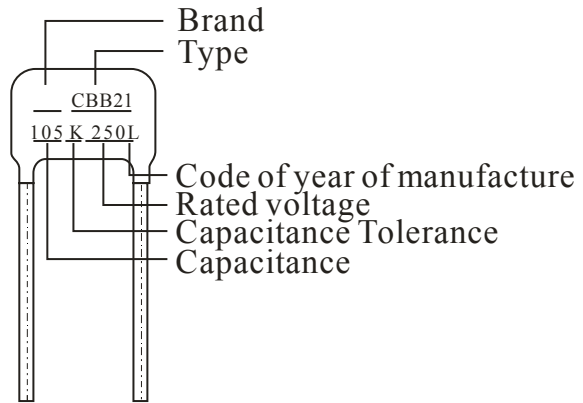
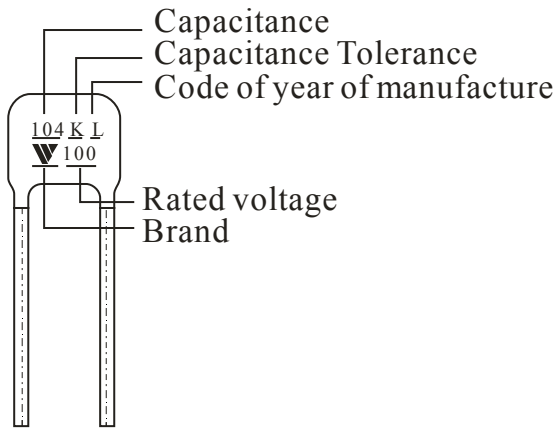
No.	Item	Performance	Test method(IEC 60384-17)
1	Solderability	Good quality of tinning	Solder temperature:245°C±5°C Immersion time: 2.0s±0.5s
2	Initial measurement	Capacitance Tgδ: 1kHz, C>1.0μF 10kHz, C≤1.0μF	
	Terminal strength	There shall be no visible damage	Tension: 0.6≤φd≤0.8mm, 10N φd=1.0mm, 20N 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 temperature	There shall be no evidence of deterioration.	θ _A =-40°C, θ _B =+85°C 5 cycles, Duration: t=30min
3	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.	4000 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	+85°C, 16h
		Damp heat, Cyclic	Test Db, Severity: b, the first cycle
		Cold	-40°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°C~ 35°C, 8.5kPa, 1h,

No.	Item		Performance	Test method(IEC 60384-17)
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. $\Delta C/C \leq \pm 5\%$ (relative to the initial value) Increase of $\text{tg}\delta$: ≤ 0.005 (10kHz, $C \leq 1.0\mu\text{F}$) ≤ 0.005 (1kHz, $C > 1.0\mu\text{F}$) IR: $\geq 50\%$ of the rated value	
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 $\text{tg}\delta \leq 0.002$ 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: 21 days
6	Endurance		$\Delta C/C \leq \pm 5\%$ (relative to the initial value) Increase of $\text{tg}\delta$: ≤ 0.004 (10kHz, $C \leq 1.0\mu\text{F}$) ≤ 0.004 (1kHz, $C > 1.0\mu\text{F}$) IR: $\geq 50\%$ of the rated value	Temperature: $+85^\circ\text{C}$ Voltage: $1.25 \times U_R$ (50Hz) Duration: 1 000h
7	Temperature characteristic		Measuring capacitance at test point b, d, f: Characteristic at lower category temperature -40°C : $0 \leq (C_b - C_d)/C_d \leq +3\%$ Characteristic at upper category temperature $+85^\circ\text{C}$: $-3.25\% \leq (C_f - C_d)/C_d \leq 0$	Static method: The capacitors should be kept at the following temperature in turn: a. $(+20 \pm 2)^\circ\text{C}$ b. $(-40 \pm 2)^\circ\text{C}$ d. $(20 \pm 2)^\circ\text{C}$ f. $(+85 \pm 2)^\circ\text{C}$ g. $(+20 \pm 2)^\circ\text{C}$
8	Charging and discharging		$\Delta C/C \leq \pm 5\%$ (relative to the initial value) Increase of $\text{tg}\delta$: ≤ 0.005 (10kHz, $C \leq 1.0\mu\text{F}$) ≤ 0.005 (1kHz, $C > 1.0\mu\text{F}$) 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)

■ Marking

$P \leq 10.0\text{mm}$

$P > 10.0\text{mm}$



■ Taping for dipped-type capacitor

▲ Outline Drawing

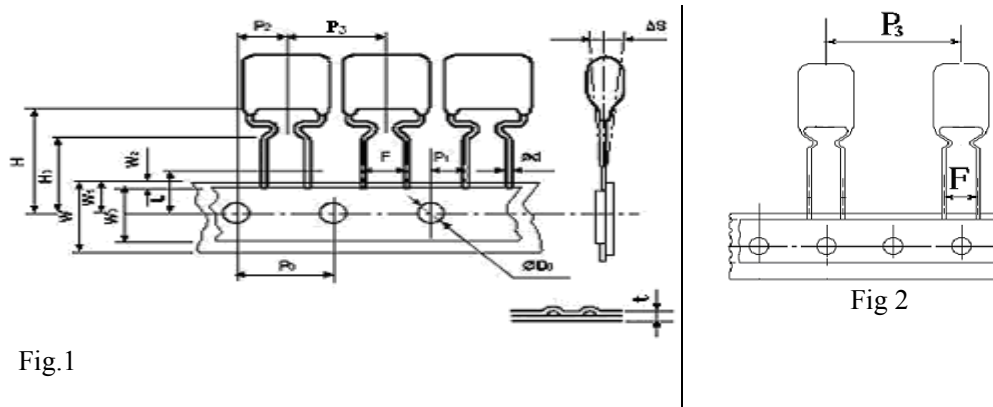


Fig.1

Fig 2

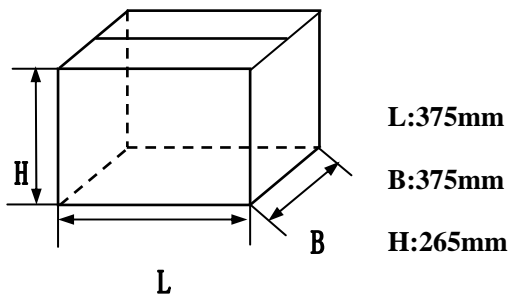
▲ Taping Dimensions(mm)

Technology index title	代号	尺寸(mm)				误差
		P=5.0	P=7.5	P=10.0	P=15.0	
Taping type	—	Fig 1	Fig 1	Fig 2	Fig 2	—
Part number Digit12-15	Ammo-pack	A21A	A31A	A41E	A61E	
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	2.60	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	+0.8 -0.2
Component alignment	ΔS	0	0	0	0	± 2.0
Height of crangle from tape center	H	20.0	20.0	20.0	20.0	± 1.0
Height of component from tape center	H_0	16.0	16.0	16.0	16.0	± 0.5
Carrier tape width	W	18.0	18.0	18.0	18.0	+1.0 -0.5
Hold down tape width	W_0	13	13	13	13	± 0.5
Hole position	W_1	9.0	9.0	9.0	9.0	+0.75 -0.5
Hold down tape sition	W_2	≤ 3	≤ 3	≤ 3	≤ 3	—
Feed hole dia.	D_0	4.0	4.0	4.0	4.0	± 0.3
Tape thickness	t	0.7	0.7	0.7	0.7	± 0.2

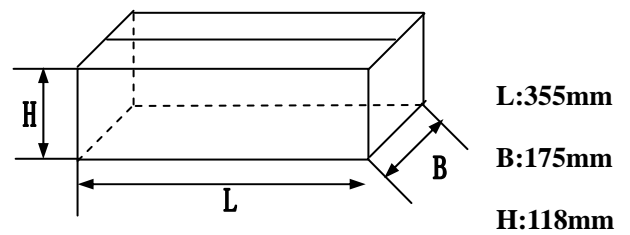
Note: * $P_0=15mm$ is also available;
** F can be other lead spacing;

■ Packing box sizes

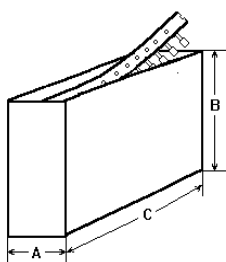
1. Out packing box for bulk



2. Inner packing box for bulk



3. Box sizes for Ammo-pack



A=48±3; B=260±3; C=330±3