



PRODUCT SPECIFICATION

规格书

Customer (客户名称):

Customer P/N (客户料号):

Aillen P/N(爱伦料号):MPP Series

CATEGORY(品名): Metallized Polypropylene Film Capacitor

DESCRIPTION(型号):

Spec No.(承认书编号):

Date(发行日期):

AILLEN

PREPARED
(拟定)

CHECKED
(审核)

CUSTOMER

Please sign a copy after accepting

APPROVAL
(批准)

SIGNATURE
(签名)

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1. Application

This specification applied to capacitor for type MPP(Metallized Polypropylene Film Capacitor(Dipped))
Reference Standard GB/T 10190 (IEC 60384-16)

2. Feature&Application

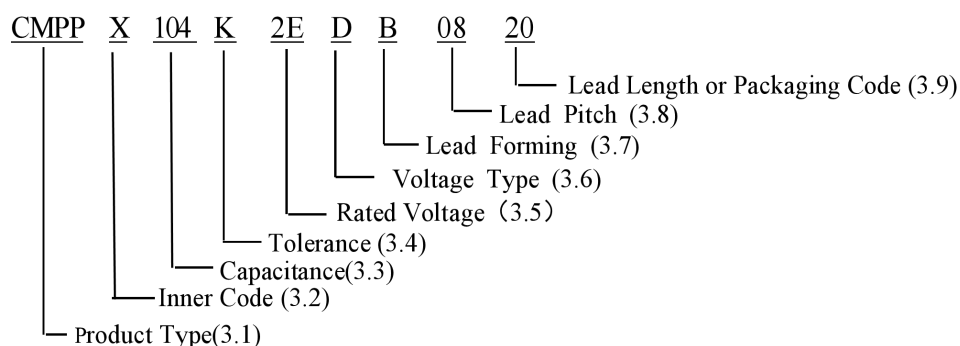
2-1 Feature

- Metallized polypropylene film
- Low loss at high frequency
- Small inherent temperature rise
- Flame retardant epoxy resin coated

2-2 Recommended Application:

- Typical for S-correction in TV-set
- Switching power supply circuits
- Electronic ballast circuits
- Video tape recorder

3. Part Number System



3-1 tape:

Code	CMEF	CMPP	CMEB	CMPB
Type	MEF	MPP	MEB	MPB

3-2 Inner Code

3-3 Capacitance:

Code	102	103	104	105	106
Capacitance	0.001μF	0.01μF	0.1μF	1μF	10μF

3-4 Tolerance:

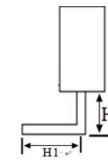
Code	H	J	K
Tolerance	±3%	±5%	±10%

3-5 Rated Voltage:

Code	2A	2E	2G	2W	2J
Voltage	100	250	400	450	630

3-6 Voltage Tyoe: D→DC; A→AC

3-7 Lead forming:

Code	B	K	R	U	W	S	T
Lead Forming							Taping

3-8 Lead Pitch:

Code	08	10	15	20	22	27	31	AX
Pitch(mm)	7.5mm	10mm	15mm	20mm	22mm	27mm	31mm	Axial Lead 

3-9 Lead length or Packaging Code:

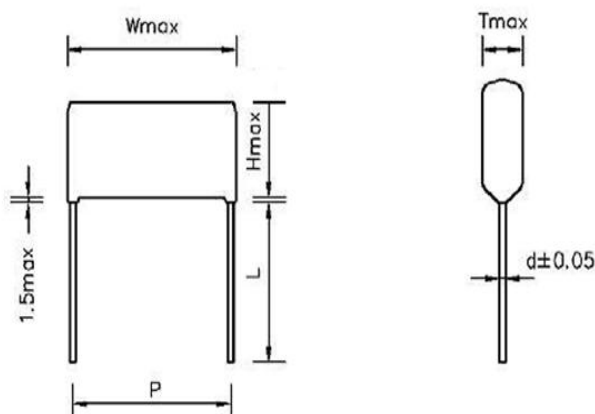
Code	35	04	45	10	15	20
Bulk and Cut Length(mm)	3.5mm	4mm	4.5mm	10mm	15mm	17mm Min.

Code	T1	T5	T7
Taping	Straight foot Taping P3=12.7mm (For pitch=5.0/7.5mm)	Straight foot Taping P3=25.4mm(For pitch=10/15mm)	Straight foot Taping P0=12.7mm(For pitch=22.5/27.5mm)

4. Specification

Reference Standard	GB/T 10190 (IEC 60384-16)
Climatic Category	40/105/21
Rated Temperature Range	-40°C~ 105°C (+85°C to +105°C decreasing factor 1.5% per °C for Rated Voltage)
Rated Voltage	100VDC、250VDC、400VDC、630VDC
Capacitance Range	0.01μF ~ 10μF
Capacitance Tolerance	±3%(H)、±5%(J)、±10%(K)
Voltage Proof	Terminal to Terminal:(at20±5°C) 1.6U _R (5s) (cut off current 10mA)
Dissipation Factor	0.1 % (Max.) at 1KHz, 20 °C
Insulation Resistance	Terminal to Terminal: (at20°C± 5°C), Voltage charge time : 1 minute. Voltage charge : 100VDC. CR≤0.33μF, IR≥30000MΩ; CR>0.33μF, IR≥10000MΩ×μF

5. Dimensions



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P/N	Rated voltage	Capacitance (μF)	Size (mm)				
			W Max.	H Max.	T Max.	P±1	Φd ±0.05
CMPPX103*2ADB08--	100VDC	0.010	10.5	8.5	5.5	7.5	0.60
CMPPX123*2ADB08--	100VDC	0.012	10.5	8.5	5.5	7.5	0.60
CMPPX153*2ADB08--	100VDC	0.015	10.5	8.5	5.5	7.5	0.60
CMPPX183*2ADB08--	100VDC	0.018	10.5	8.5	5.5	7.5	0.60
CMPPX223*2ADB08--	100VDC	0.022	10.5	9.0	5.5	7.5	0.60
CMPPX273*2ADB08--	100VDC	0.027	10.5	9.0	5.5	7.5	0.60
CMPPX333*2ADB08--	100VDC	0.033	10.5	9.0	5.5	7.5	0.60
CMPPX393*2ADB08--	100VDC	0.039	10.5	9.0	5.5	7.5	0.60
CMPPX473*2ADB08--	100VDC	0.047	10.5	9.0	5.5	7.5	0.60
CMPPX563*2ADB08--	100VDC	0.056	10.5	9.0	5.5	7.5	0.60
CMPPX683*2ADB08--	100VDC	0.068	10.5	9.0	5.5	7.5	0.60
CMPPX823*2ADB08--	100VDC	0.082	10.5	9.5	5.5	7.5	0.60
CMPPX104*2ADB08--	100VDC	0.10	10.5	9.5	5.5	7.5	0.60
CMPPX124*2ADB08--	100VDC	0.12	10.5	9.5	5.5	7.5	0.60
CMPPX154*2ADB08--	100VDC	0.15	10.5	10.0	6.0	7.5	0.60
CMPPX184*2ADB08--	100VDC	0.18	10.5	10.5	6.5	7.5	0.60
CMPPX224*2ADB10--	100VDC	0.22	13.0	10.0	6.0	10	0.60
CMPPX274*2ADB10--	100VDC	0.27	13.0	11.0	6.5	10	0.60
CMPPX334*2ADB10--	100VDC	0.33	13.0	11.5	7.0	10	0.60
CMPPX394*2ADB10--	100VDC	0.39	13.0	12.0	7.5	10	0.60
CMPPX474*2ADB10--	100VDC	0.47	13.0	12.5	8.5	10	0.60
CMPPX564*2ADB15--	100VDC	0.56	18.0	11.5	6.5	15	0.60
CMPPX684*2ADB15--	100VDC	0.68	18.0	12.5	7.5	15	0.80
CMPPX824*2ADB15--	100VDC	0.82	18.0	13	8.0	15	0.80
CMPPX105*2ADB15--	100VDC	1.0	18.0	13.5	8.5	15	0.80
CMPPX125*2ADB15--	100VDC	1.2	18.0	14.5	9.5	15	0.80
CMPPX155*2ADB15--	100VDC	1.5	18.0	16.0	10.5	15	0.80
CMPPX185*2ADB20--	100VDC	1.8	23.0	16.0	9.0	20	0.80
CMPPX225*2ADB20--	100VDC	2.2	23.0	17.0	10.0	20	0.80
CMPPX275*2ADB20--	100VDC	2.7	23.0	18.0	11.0	20	0.80

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CMPPX335*2ADB20--	100VDC	3.3	23.0	19.5	12.0	20	0.80
CMPPX395*2ADB27--	100VDC	3.9	31.0	19.0	10.5	27.5	0.80
CMPPX475*2ADB27--	100VDC	4.7	31.0	20.0	11.5	27.5	0.80
CMPPX565*2ADB27--	100VDC	5.6	31.0	21.0	12.5	27.5	0.80
CMPPX685*2ADB27--	100VDC	6.8	31.0	22.5	14.0	27.5	0.80
CMPPX825*2ADB27--	100VDC	8.2	31.0	24.5	15.5	27.5	0.80
CMPPX106*2ADB27--	100VDC	10.0	31.0	27.0	17.0	27.5	0.80
CMPPX103*2EDB08--	250VDC	0.010	10.5	9.0	5.5	7.5	0.60
CMPPX123*2EDB08--	250VDC	0.012	10.5	9.0	5.5	7.5	0.60
CMPPX153*2EDB08--	250VDC	0.015	10.5	9.0	5.5	7.5	0.60
CMPPX183*2EDB08--	250VDC	0.018	10.5	9.0	5.5	7.5	0.60
CMPPX223*2EDB08--	250VDC	0.022	10.5	9.0	5.5	7.5	0.60
CMPPX273*2EDB08--	250VDC	0.027	10.5	9.0	5.5	7.5	0.60
CMPPX333*2EDB08--	250VDC	0.033	10.5	9.0	5.5	7.5	0.60
CMPPX393*2EDB08--	250VDC	0.039	10.5	9.0	5.5	7.5	0.60
CMPPX473*2EDB08--	250VDC	0.047	10.5	9.0	5.5	7.5	0.60
CMPPX563*2EDB08--	250VDC	0.056	10.5	9.0	5.5	7.5	0.60
CMPPX683*2EDB08--	250VDC	0.068	10.5	9.0	5.5	7.5	0.60
CMPPX823*2EDB08--	250VDC	0.082	10.5	9.5	5.5	7.5	0.60
CMPPX104*2EDB08--	250VDC	0.10	10.5	9.5	5.5	7.5	0.60
CMPPX124*2EDB08--	250VDC	0.12	10.5	9.5	5.5	7.5	0.60
CMPPX154*2EDB08--	250VDC	0.15	10.5	10.0	6.0	7.5	0.60
CMPPX184*2EDB08--	250VDC	0.18	10.5	10.5	6.5	7.5	0.60
CMPPX224*2EDB10--	250VDC	0.22	13.0	10.0	6.0	10	0.60
CMPPX274*2EDB10--	250VDC	0.27	13.0	11.0	6.5	10	0.60
CMPPX334*2EDB10--	250VDC	0.33	13.0	11.5	7.0	10	0.60
CMPPX394*2EDB10--	250VDC	0.39	13.0	12.0	7.5	10	0.60
CMPPX474*2EDB10--	250VDC	0.47	13.0	12.5	8.5	10	0.60
CMPPX564*2EDB15--	250VDC	0.56	18.0	11.5	6.5	15	0.60
CMPPX684*2EDB15--	250VDC	0.68	18.0	12.5	7.5	15	0.80
CMPPX824*2EDB15--	250VDC	0.82	18.0	13.0	8.0	15	0.80
CMPPX105*2EDB15--	250VDC	1.0	18.0	13.5	8.5	15	0.80
CMPPX125*2EDB15--	250VDC	1.2	18.0	14.5	9.5	15	0.80
CMPPX155*2EDB15--	250VDC	1.5	18.0	16.0	10.5	15	0.80

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CMPPX185*2EDB20--	250VDC	1.8	23.0	16.0	9.0	20	0.80
CMPPX225*2EDB20--	250VDC	2.2	23.0	17.0	10.0	20	0.80
CMPPX275*2EDB20--	250VDC	2.7	23.0	18.0	11.0	20	0.80
CMPPX335*2EDB20--	250VDC	3.3	23.0	19.5	12.0	20	0.80
CMPPX395*2EDB27--	250VDC	3.9	31.0	19.0	10.5	27.5	0.80
CMPPX475*2EDB27--	250VDC	4.7	31.0	20.0	11.5	27.5	0.80
CMPPX565*2EDB27--	250VDC	5.6	31.0	21.0	12.5	27.5	0.80
CMPPX685*2EDB27--	250VDC	6.8	31.0	22.5	14.0	27.5	0.80
CMPPX825*2EDB27--	250VDC	8.2	31.0	24.5	15.5	27.5	0.80
CMPPX106*2EDB27--	250VDC	10.0	31.0	27.0	17.0	27.5	0.80
CMPPX103*2GDB08--	400VDC	0.010	10.5	9.0	5.5	7.5	0.60
CMPPX123*2GDB08--	400VDC	0.012	10.5	9.0	5.5	7.5	0.60
CMPPX153*2GDB08--	400VDC	0.015	10.5	9.0	5.5	7.5	0.60
CMPPX183*2GDB08--	400VDC	0.018	10.5	9.0	5.5	7.5	0.60
CMPPX223*2GDB08--	400VDC	0.022	10.5	9.0	5.5	7.5	0.60
CMPPX273*2GDB08--	400VDC	0.027	10.5	9.0	5.5	7.5	0.60
CMPPX333*2GDB08--	400VDC	0.033	10.5	9.0	5.5	7.5	0.60
CMPPX393*2GDB10--	400VDC	0.039	13.0	9.0	5.5	10	0.60
CMPPX473*2GDB10--	400VDC	0.047	13.0	9.0	5.5	10	0.60
CMPPX563*2GDB10--	400VDC	0.056	13.0	9.0	6.0	10	0.60
CMPPX683*2GDB10--	400VDC	0.068	13.0	9.5	6.0	10	0.60
CMPPX823*2GDB10--	400VDC	0.082	13.0	10.5	6.5	10	0.60
CMPPX104*2GDB10--	400VDC	0.10	13.0	11.0	7.0	10	0.60
CMPPX124*2GDB10--	400VDC	0.12	13.0	11.5	7.5	10	0.60
CMPPX154*2GDB15--	400VDC	0.15	18.0	10.5	6.5	15	0.60
CMPPX184*2GDB15--	400VDC	0.18	18.0	11.0	7.0	15	0.60
CMPPX224*2GDB15--	400VDC	0.22	18.0	11.5	7.5	15	0.80
CMPPX274*2GDB15--	400VDC	0.27	18.0	12.5	8.0	15	0.80
CMPPX334*2GDB15--	400VDC	0.33	18.0	13.5	8.5	15	0.80
CMPPX394*2GDB15--	400VDC	0.39	18.0	14.0	9.0	15	0.80
CMPPX474*2GDB15--	400VDC	0.47	18.0	14.5	9.0	15	0.80
CMPPX564*2GDB15--	400VDC	0.56	18.0	14.5	9.5	15	0.80
CMPPX684*2GDB15--	400VDC	0.68	18.0	15.0	10.5	15	0.80
CMPPX824*2GDB20--	400VDC	0.82	23.0	15.5	9.0	20	0.80
CMPPX105*2GDB20--	400VDC	1.0	23.0	16.5	10.0	20	0.80

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CMPPX125*2GDB20--	400VDC	1.2	23.0	17.5	10.5	20	0.80
CMPPX155*2GDB20--	400VDC	1.5	23.0	19.0	12.0	20	0.80
CMPPX185*2GDB20--	400VDC	1.8	23.0	20.0	13.0	20	0.80
CMPPX225*2GDB20--	400VDC	2.2	23.0	21.5	14.5	20	0.80
CMPPX275*2GDB27--	400VDC	2.7	31.0	21.5	13.0	27.5	0.80
CMPPX335*2GDB27--	400VDC	3.3	31.0	23.0	14.5	27.5	0.80
CMPPX395*2GDB27--	400VDC	3.9	31.0	24.0	15.5	27.5	0.80
CMPPX475*2GDB27--	400VDC	4.7	31.0	26.5	16.5	27.5	0.80
CMPPX565*2GDB27--	400VDC	5.6	31.0	28.0	18.0	27.5	0.80
CMPPX685*2GDB27--	400VDC	6.8	31.0	29.5	20.0	27.5	0.80
CMPPX103*2JDB08--	630VDC	0.010	10.5	9.0	5.5	7.5	0.60
CMPPX123*2JDB08--	630VDC	0.012	10.5	9.5	5.5	7.5	0.60
CMPPX153*2JDB08--	630VDC	0.015	10.5	9.0	5.5	7.5	0.60
CMPPX183*2JDB08--	630VDC	0.018	10.5	9.0	5.5	7.5	0.60
CMPPX223*2JDB10--	630VDC	0.022	13.0	9.0	5.5	10	0.60
CMPPX273*2JDB10--	630VDC	0.027	13.0	9.0	6.0	10	0.60
CMPPX333*2JDB10--	630VDC	0.033	13.0	9.5	6.5	10	0.60
CMPPX393*2JDB10--	630VDC	0.039	13.0	10.5	6.5	10	0.60
CMPPX473*2JDB10--	630VDC	0.047	13.0	11.0	7.0	10	0.60
CMPPX563*2JDB10--	630VDC	0.056	13.0	11.5	7.5	10	0.60
CMPPX683*2JDB10--	630VDC	0.068	13.0	12.0	8.0	10	0.60
CMPPX823*2JDB15--	630VDC	0.082	18.0	10.5	6.5	15	0.60
CMPPX104*2JDB15--	630VDC	0.10	18.0	11.5	7.0	15	0.80
CMPPX124*2JDB15--	630VDC	0.12	18.0	12.5	7.5	15	0.80
CMPPX154*2JDB15--	630VDC	0.15	18.0	13.0	8.0	15	0.80
CMPPX184*2JDB15--	630VDC	0.18	18.0	14.0	9.0	15	0.80
CMPPX224*2JDB15--	630VDC	0.22	18.0	14.5	9.5	15	0.80
CMPPX274*2JDB15--	630VDC	0.27	18.0	15.5	10.5	15	0.80
CMPPX334*2JDB15--	630VDC	0.33	18.0	17.0	12.0	15	0.80
CMPPX394*2JDB20--	630VDC	0.39	23.0	13.0	8.0	20	0.80
CMPPX474*2JDB20--	630VDC	0.47	23.0	15.0	8.5	20	0.80
CMPPX564*2JDB20--	630VDC	0.56	23.0	15.5	9.0	20	0.80
CMPPX684*2JDB20--	630VDC	0.68	23.0	16.5	10.0	20	0.80
CMPPX824*2JDB20--	630VDC	0.82	23.0	17.5	11.0	20	0.80
CMPPX105*2JDB20--	630VDC	1.0	23.0	18.5	12.0	20	0.80

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CMPPX125*2JDB27--	630VDC	1.2	31.0	18.5	10.5	27.5	0.80
CMPPX155*2JDB27--	630VDC	1.5	31.0	20.0	11.5	27.5	0.80
CMPPX185*2JDB27--	630VDC	1.8	31.0	21.0	12.5	27.5	0.80
CMPPX225*2JDB27--	630VDC	2.2	31.0	22.5	14.0	27.5	0.80
CMPPX275*2JDB27--	630VDC	2.7	31.0	24.5	16.0	27.5	0.80
CMPPX335*2JDB27--	630VDC	3.3	31.0	26.5	18.0	27.5	0.80
CMPPX395*2JDB27--	630VDC	3.9	31.0	28.0	19.0	27.5	0.80
CMPPX475*2JDB27--	630VDC	4.7	31.0	30.0	21.5	27.5	0.80

Note:

“*” =capacitance tolerancecode. K= $\pm 10\%$,J= $\pm 5\%$.,H= $\pm 3\%$

“--” =Lead length or Packaging Code(Refer to 3-9)

The sizes in the above table are all general specifications. If you need other specifications, please contact us.

Specification are subject to change without notice , please be sure to contact our sales offices.

6. Reliability Testing

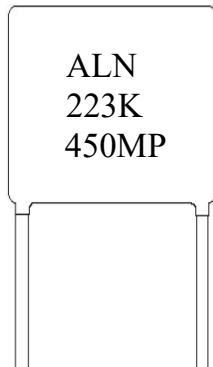
No	Test items	Performance	Test Method
6-1	Withstand voltage (Between Terminals)	Shall be no abnormality	150% Of Rated Voltage, 60sec.
6-2	Capacitance	Within the tolerance specified	1KHz, 1Vrms Max. at 25°C
6-3	Tense Strength of Terminal	No wire breakage and No Damage of Capacitor Capacitance Change : $\leq \pm 5\%$	1. Load Force : 1.0 Kg 2. Holding Time : 10 ± 1 sec
6-4	Bending Strength of Terminal	No wire breakage and No Damage of Capacitor	1. Load Force : 0.5 Kg 2. Bending Time : $4 \times 90^\circ$ in 5sec
6-5	Solder-ability	1. Appearance : No Visible Damage 2. Covering an area of > solder 95% 3. Capacitance Change : $\leq \pm 5\%$	Soldering preheating 1.Preheating temperature of $T < 120^\circ\text{C}$ 2.Preheating time capacitor $t < 5$ min Single wave soldering 1.Solder temperature: $270 \pm 5^\circ\text{C}$ 2.Solder time: 2 ± 0.5 sec
6-6	Heat Shock test	Appearance : No Visible Damage Withstand Voltage : Normal Capacitance Change : $\leq \pm 5\%$ of the initial value	The terminal of capacitor shall be immersed in the melting solder. a. Solder temperature: $270 \pm 5^\circ\text{C}$ b. Solder time: 3 ± 0.5 sec c. Test Voltage: 100% of The Rate Voltage For 1min.
6-7	Cold Resistance	Appearance : No Visible Damage Capacitance Change : $\leq \pm 5\%$ of the initial value	a. Test Temperature: -40°C b. Test Times: 2Hrs
6-8	Dry Heat Resistance	Appearance : No Visible Damage Withstand Voltage : Normal Capacitance Change : $\leq \pm 5\%$ of the initial value	a. Test Temperature: $85^\circ\text{C} \pm 2^\circ\text{C}$ b. Test Times: 2Hrs

Aillen Electronic Technology Limited	Metallized Polypropylene Film Capacitor MPP Series(Dipped)	Aillen
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No	Test items	Performance	Test Method
6-9	Humidity Resistance	Appearance : No Visible Damage Withstand Voltage : Normal Capacitance Change : $\leq \pm 10\%$ of the initial value Insulation Resistance: $\geq 50\%$ of the rated value $DF (\tan \delta) \leq 0.1\%$	a. Test Temperature: $40^{\circ}\text{C} \pm 2^{\circ}\text{C}$ b. Relative Humidity: 90 ~ 95% c. Test Times: 500 HRS
6-10	Charge & Discharge	Appearance : No Visible Damage Capacitance Change : $\pm 10\%$ of the initial value Insulation Resistance: $\geq 50\%$ of the rated value $DF (\tan \delta) \leq 0.1\%$	a. Test Voltage : Rated Voltage Charge for 2sec. Discharge for 2 sec. Repeated for 1000 ± 100 cycles b. Test Temperature: $85^{\circ}\text{C} \pm 2^{\circ}\text{C}$
6-11	Load Life Test	Appearance : No Visible Damage Capacitance Change : $\pm 10\%$ of the initial value Insulation Resistance: $\geq 50\%$ of the rated value $DF (\tan \delta) \leq 0.1\%$	a. Test Temperature: $85^{\circ}\text{C} \pm 2^{\circ}\text{C}$ b. Test Times: 1000 ± 24 Hrs c. Test Voltage: 125% of The Rated Voltage
6-12	Temperature Cycle Test	Appearance : No Visible Damage Capacitance Change : $\pm 5\%$ of the initial value Insulation Resistance: $\geq 50\%$ of the rated value $DF (\tan \delta) \leq 0.1\%$	$-40 \pm 3^{\circ}\text{C}$ for 30 minutes to $85 \pm 2^{\circ}\text{C}$ for 30 minutes, cycled five times in sequence

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7. Marking



ALN	Aillen
223	CAPACITANCE
K	CAPACITANCE TOLERANCE
450	RATED VOLTAGE
MP	METALLIZED POLYPROPYLENE FILM

8. Storage conditions and duration

Packaged capacitors should be kept in clean, ventilated, dry coffers, not near the heat source, not subject to direct sunlight, is strictly prohibited and chemical reagents, acid and harmful gas storage together.

Capacitor at a temperature within the range 20 ~ 25 °C, humidity less than 50% of the state of storage for one year.

9. Packing for tinned-wire capacitors

9-1 Outline Drawing

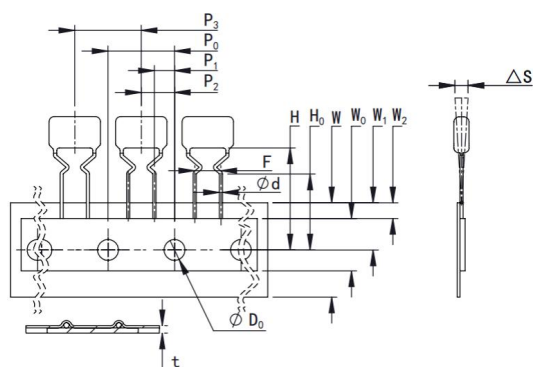


Fig.1

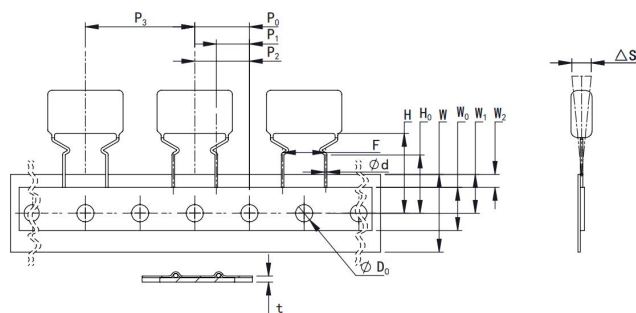
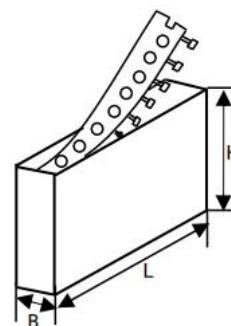


Fig.2

9-2 Taping & Box Dimensions(mm)

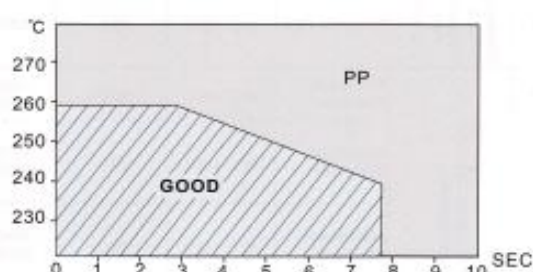
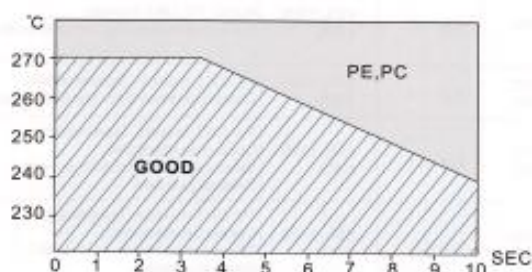
Mark	Taping Dimensions(mm)				
	P=5.0	P=7.5	P=10.0	P=15.0	Tolerate
Type	Fig.1	Fig.1	Fig. 2	Fig. 2	/
P3	12.7	12.7	25.4	25.4	±1.0
P0	12.7	12.7	12.7	12.7	±0.3
P1	3.85	2.6	7.7	5.2	±0.7
P2	6.35	6.35	12.7	12.7	±1.3
F	5	7.5	10	15	+0.8/-0.2
ΔS	0	0	0	0	±2.0
H	20	20	20	20	±1.0
H0	16	16	16	16	±0.5
W	18	18	18	18	+1/-0.5
W0	10min	10min	10min	10min	/
W1	9	9	9	9	+0.75/-0.5
W2	3max	3max	3max	3max	/
D0	4	4	4	4	±0.3
t	0.7	0.7	0.7	0.7	±0.2
Note: If you need other taping, please contact us.					



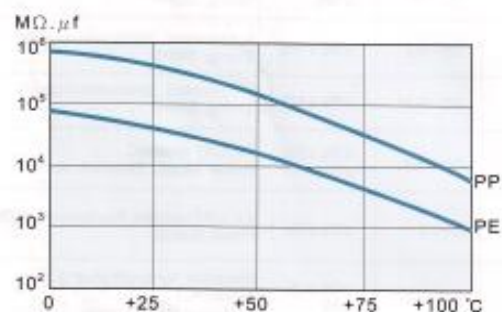
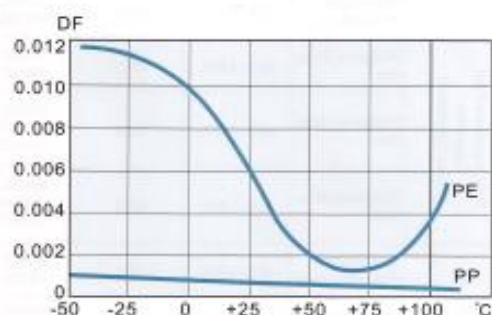
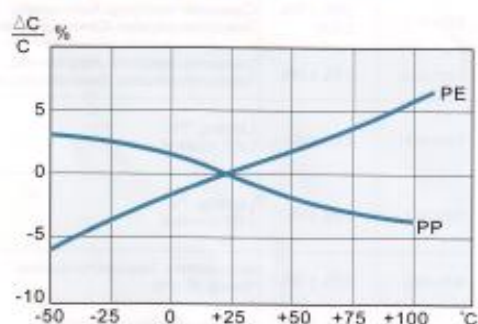
$L=335\pm 3\text{mm}$
 $B=55/50\pm 3\text{mm}$
 $H=265/350\pm 3\text{mm}$

10. Typical graphs

Soldering Temperature VS Time



Temperature Characteristics



PP: 聚丙烯薄膜 (Polypropylene Film)

PE: 聚酯薄膜 (Polyester Film)

Frequency Characteristics

