

威迪電子(東莞)有限公司
WINDAY ELECTRONIC (DONG GUAN) CO., LTD.
承認書 (APPROVAL SHEET)

(Type MPX)

WD-AP-029

品 名

PART NAME

POLYESTER FILM INDUCTIVE CAPACTOR (PEI)

承認規格

APPROVE ITEM

PEI 472J/630V P=5 6.4*9.5*3.4

威迪料号

WIN DAY PART NO

P/N : PPEIX472J0630DB0523

客戶名稱

CUSTOMER

昆山日龐電子科技有限公司

贵公司料号

Part No

10010231

送承認日期

DATE

2016-5-6

供應商
VENDER

客 戶
CUSTOMER



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(Type PEI)

WD-AP-15

1. Scope :

This specification applied to capacitor for type PEI(Pol Yester Film Inductive Capacitor)

2. Operation Temperature :

-40°C ~ +85°C

3. Capacitance Range :

0.001uF ~ 0.47 uF

4. Capacitance Tolerance :

±2%(G)、±3%(I)、±5%(J)、±10%(K)、±20%(M)

5. Rated Voltage :

50VDC、63VDC、100VDC、250VDC、400VDC、500VDC、630VDC、1KVDC

6. Winday Part No. :

□□□□□

1

(tape)

□□□

2

(film thickness)

□

3

(capacitance)

□□□□

4

(tolerance)

□

5

(rated voltage)

□

6

(Dc/Ac)

□□

7

(lead forming)

□□

8

(lead pitch) (lead length)

6-1 tape :

Code	SPEIX	SMEFX	SMEMX	SMPPX	SPENX	SPPNX	SPPSX	SMXX	SMECX	SMETX
Tape	PEI	MEF	MEM	MPP	PEN	PPN	PPS	X2	MEC	MET

6-2 Capacitance :

Code	101	102	103	104
Capacitance	0.0001uF	0.001uF	0.01uF	0.1uF

6-3 Tolerance :

Code	G	H	I	J	K	M
Tolerance	±2%	±2.5%	±3%	±5%	±10%	±20%

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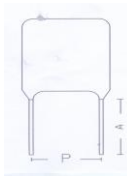
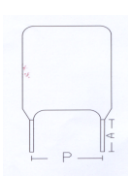
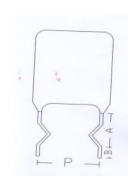
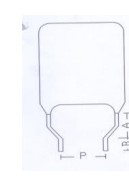
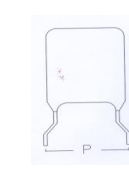
(Type PEI)

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6-4 Rated Voltage : Showing the real working voltage indicated. For example : 0630 -> 630V, 1000 -> 1KV ◦

6-5 D→DC ; A→AC

6-6 Lead forming :

Code	B	K	R	U	W	T	S
Lead Forming						TAPING	Customer Special Require

6-7 Lead Pitch : Showing the capacitor lead pitch, For example :

Code	4.5	5	6	7	8	9
Pitch(mm)	4.5mm	5mm	6 mm	7mm	7.5mm	9mm

6-8 Lead length : Showing the capacitor lead Length, For example :

Code	04	08	10	13	23	30	40
Length(mm)	4mm	8mm	10mm	13mm	23mm	30mm	40mm

7. Specifications (JIS 5115)

No	Test items	Performance	Test Method
7-1	Withstand voltage (Between Terminals)	Shall be no abnormality	150% Of Rated Voltage, 60sec.
	Between terminal and Enclosure	Shall be no abnormality	UR×200%+1000VDC, 60sec.
7-2	Insulation resistance (Between Terminals)	$C_R \leq 0.33\mu F$ $IR \geq 15,000M\Omega$ $C_R > 0.33\mu F$ $IR \geq 5,000 (M\Omega \cdot \mu F)$	Measured at 100±15VDC, For 60sec / 25°C

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No	Test items	Performance	Test Method
7-3	Capacitance	Within the tolerance specified	1KHz, 1Vrms Max. at 25°C
7-4	Dissipation Factor	0.01 (1%) Max.	1KHz, 1Vrms Max. at 25°C
7-5	Tense Strength of Terminal	No wire breakage and No Damage of Capacitor	1. Load Force : 1.0 Kg 2. Holding Time : 10 ± 1sec
7-6	Bending Strength of Terminal	No wire breakage and No Damage of Capacitor	1. Load Force : 0.5 Kg 2. Bending Time : 4 x 90° in 5sec
7-7	Vibration	(1) Appearance : No Visible Damage (2) Contact : Normal	a. Frequency change : 1min. per cycle 10~55~10Hz b. Vibration distance : 1.5mm c. course: X、Y、Z (axis) d. Time : 2h / axis (6h in total)
7-8	Solder-ability	75% Of The Surface Tinning	a. Solder temperature: 270±5°C b. Solder time: 2±0.5sec
7-9	Heat Shock test	(1) Appearance : No Visible Damage (2) Withstand Voltage : Normal (3) Capacitance Change : ≤ ±3% of The Initial Value	The terminal of capacitor shall be immersed in the melting solder. a. Solder temperature: 270±5°C b. Solder time: 3±0.5sec c. Test Voltage: 150% of The Rate Voltage For 1min.

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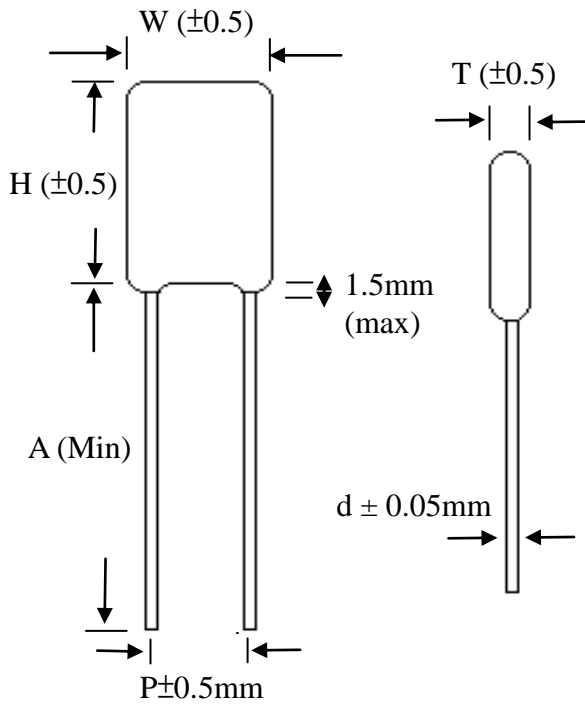
No	Test items	Performance	Test Method
7-10	Cold Resistance	(1) Appearance : No Visible Damage (2) Capacitance Change : $\leq 0\sim -10\%$ of The Initial Value	a. Test Temperature: -40°C b. Test Times: 2Hrs
7-11	Dry Heat Resistance	(1) Appearance : No Visible Damage (2) Withstand Voltage : Normal (3) Capacitance Change : $\leq +5\sim -2\%$ Of The Initial Value (4) Insulation Resistance: $C_R \leq 0.33\mu\text{F}$ $IR \geq 2,700\text{M}\Omega$ $C_R > 0.33\mu\text{F}$ $IR \geq 900\text{M}\Omega$	a. TEST TEMPERATURE: $85^{\circ}\text{C} \pm 2^{\circ}\text{C}$ b. Test Times: 2Hrs
7-12	Humidity Resistance	(1) Appearance : No Visible Damage (2) Withstand Voltage : Normal (3) Capacitance Change : $\leq \pm 10\%$ of The Initial Value (4) Insulation Resistance: $C_R \leq 0.33\mu\text{F}$ $IR \geq 2,700\text{M}\Omega$ $C_R > 0.33\mu\text{F}$ $IR \geq 900\text{M}\Omega$ (5) $DF (\tan \delta) \leq 0.01$	a. TEST TEMPERATURE: $40^{\circ}\text{C} \pm 2^{\circ}\text{C}$ b. RELATIVE HUMIDITY: $90 \sim 95\%$ c. Test Times: 240 \pm 8 HRS d. TEST VOLTAGE: 130% of The Rated Voltage for 1 min.
7-13	Heat Resistance (Charge & Discharge)	(1) Appearance : No Visible Damage (2) $DF (\tan \delta) \leq 0.01$ (3) Capacitance Change : $\pm 10\%$ of The Initial Value (4) Insulation Resistance: Over 3000M Ω	a. Test Voltage : Rated Voltage Charge for 2 sec. Discharge for 2 sec. Repeated For 100,000 \pm 1000 cycles b. Test Temperature: $85^{\circ}\text{C} \pm 2^{\circ}\text{C}$
7-14	Heat Resistance (Continuous)	(1) Appearance : No Visible Damage (2) $DF (\tan \delta) \leq 0.01$ (3) Capacitance Change : $\pm 7\%$ of The Initial Value (4) Insulation Resistance: Over 3000M Ω	a. Test Voltage : 125% of The Rated Voltage b. Test Temperature: $85^{\circ}\text{C} \pm 2^{\circ}\text{C}$ c. Test Times: 500 \pm 24Hrs

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8. Dimensions: Unit: mm



CAPACITOR BODY SIZE (Unit:mm)					
CAP	RV	W	H	T	D (±0.05)
472J	630V	6.4	9.5	3.4	0.5

Lead Style

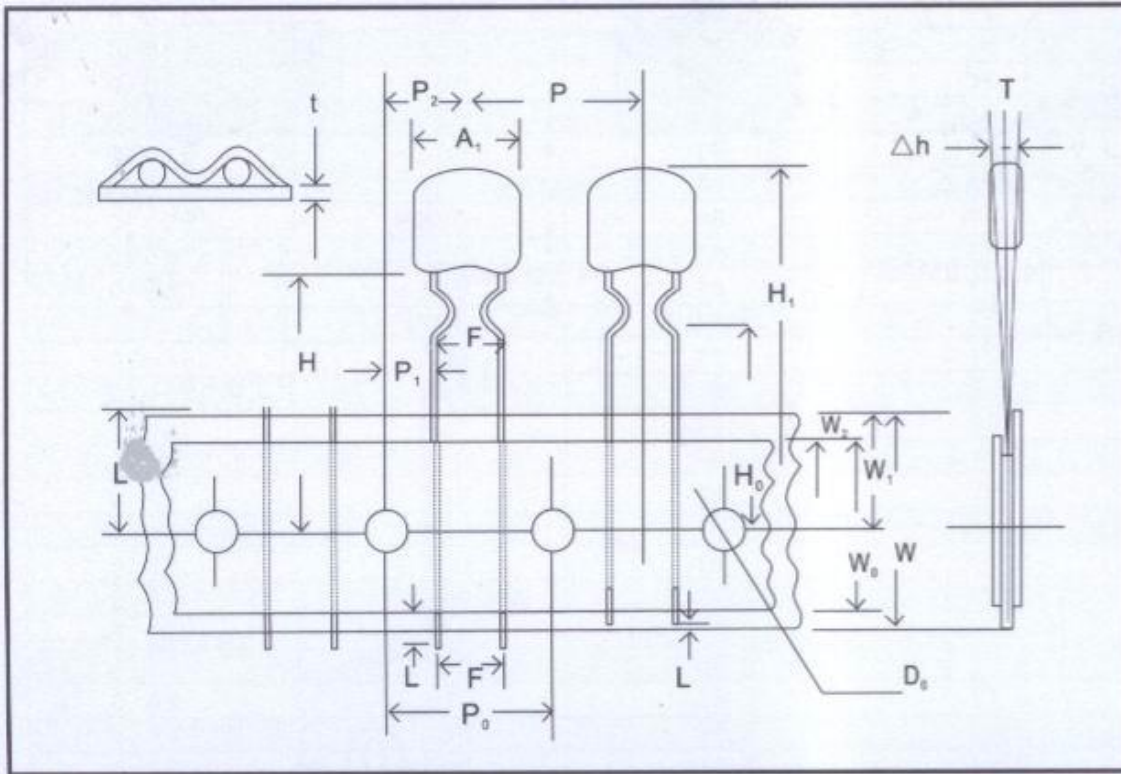
		B	K	R	U	W	T	S
							TAPING (refer to next page)	Customer Require
CAP	RV	Lead Style		A(±0.05mm)		B(±0.05mm)		
472J	630V	T		0		23.0	5.0	

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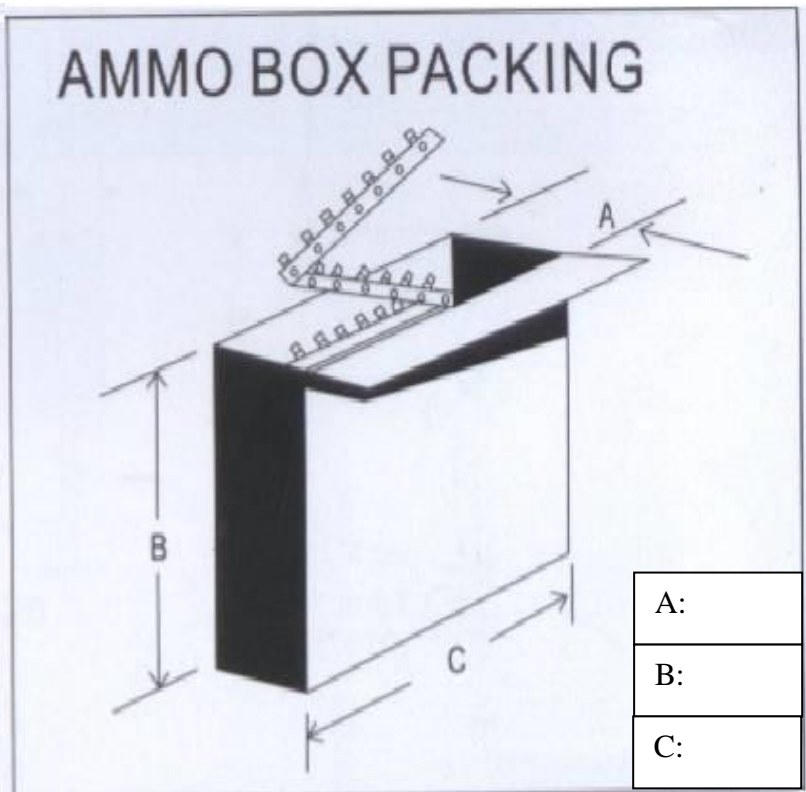
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TAPING Dimensions :



Letter	Dimension	Letter	Dimension
A	Under 10.0	w0	above 12.5
B	Ref. Bulk catalog	w1	9.0 ^{+7.5} _{-0.5}
C	Ref. Bulk catalog	w2	Under 3
P	12.7±1.0	H	20.5±0.75
PO*	12.7±0.3	HO	16.0±0.50
P1	3.85±0.7	L	Under 2
P2	6.35±1.3	DO	4.0±0.3
d	0.5/0.6	t	0.7±0.2
F	5.0 ^{+0.8} _{-0.2}	L	Under 11
Δh	0±2.0		
W	18.0 ^{+1.0} _{-0.5}		



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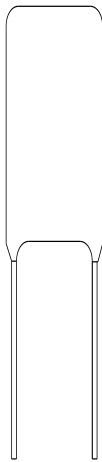
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9. Marking : 印字為三排

2J
472
J



2J	RATED VOLTAGE
472	CAPACITANCE
J	CAPACITANCE TOLERANCE

10. PACKING :

CAP	R.V.	P/N	Pcs/Taping Box (For Taping Style)	Pcs / Box (L40mm *H40mm * T30mm)
472	630V	10010231	1000CS	bulk