 威迪電子(東莞)有限公司		制作日期	2014-9-22	版本	02
文件名稱	MPX Approval Sheet-WINDAY(W) (BOX-TYPE Metallized Polypropylene Film Interference Suppression Capacitor)	文件編號	WD-AP-037	頁次	08/01

1. Scope :

This specification applied to capacitor for type MPX(BOX-TYPE Metallized Polypropylene Film Interference Suppression Capacitor)

2. Operation Temperature :

-40°C ~ +110°C

3. Capacitance Range :

0.001uF ~ 2.2uF

4. Capacitance Tolerance :


±5%(J)、±10%(K)、±20%(M)



5. Rated Voltage :

310VAC (50~60 Hz)

6. Approvals File No

Related Standard		Certificate No	Approved Monogram
UL	UL 60384-14	E302125	 (USA)
ENEC	EN60384-14: 2006-04 IEC60384-14(ed.3)	40030283	 (EU)
VDE	EN60384-14: 2006-04 IEC60384-14(ed.3)	40030283	 (Germany)

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Related Standard		Certificate No	Approved Monogram
<b>CQC</b>	GB/T14472-1998	CQC13001096493	 (China)
<b>KTL</b>	K60384-14	SU03034	 (South Korea)

7. Winday Part No. :

1            2            3            4            5            6            7            8            9

(tape)    (Internal use)    (capacitance)    (tolerance)    (Box Type)    (Ac)    (lead forming)    (lead pitch)    (lead length)

7-1 tape :

Code	SMXW
Tape	X2(W)

7-2 Internal use :

7-3 Capacitance :

Code	102	103	104	105
Capacitance	0.001uF	0.01uF	0.1uF	1uF

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7-4 Tolerance :

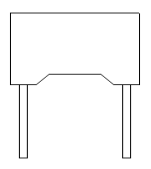
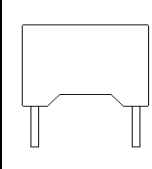
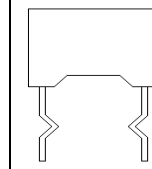
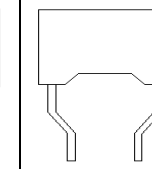
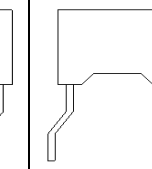
Code	K
Tolerance	±10%

7-5 BOX TYPE:

Code	C1	C2	C3	C4
Size(mm)	13(L) × 4(T) × 9(H)	12(L) × 5(T) × 11(H)	13(L) × 6(T) × 12(H)	13(L) × 7(T) × 13(H)
Code	D1	D2	D3	D4
Size(mm)	18(L) × 5(T) × 11(H)	18(L) × 6(T) × 12(H)	18(L) × 7.5(T) × 13.5(H)	18(L) × 8.4(T) × 14.5(H)
Code	E1	E2	E3	E4
Size(mm)	26.5(L) × 6(T) × 15(H)	26.5(L) × 7(T) × 16.5(H)	26.5(L) × 8.5(T) × 17(H)	26.5(L) × 10(T) × 19(H)
Code	F1	F2	F3	F4
Size(mm)	31.4(L) × 11(T) × 20(H)	31.5(L) × 13(T) × 22(H)	31(L) × 14(T) × 25(H)	32(L) × 9(T) × 18(H)

7-6 A→AC

7-7 Lead forming :


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

7-8 Lead Pitch : Showing the capacitor lead pitch, For example :

Code	10	15	23	28	31
Pitch(mm)	10mm	15mm	22.5mm	27.5mm	31mm

7-9 Lead length : Showing the capacitor lead Length, For example :

Code	04	08	10	13	20	30	40
Length(mm)	4mm	8mm	10mm	13mm	20mm	30mm	40mm

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8. Specifications ( IEC60384-14)

No	Test items	Performance	Test Method
8-1	Withstand voltage (Between Terminals)	Shall be no abnormality	UR×430% (DC) Test Of 60sec.
	Between terminal and Enclosure	Shall be no abnormality	UR×200%+1500VAC, 60sec.
8-2	Insulation resistance (Between Terminals)	$C_R \leq 0.33\mu F$ $IR \geq 15,000M\Omega$ $C_R > 0.33\mu F$ $IR \geq 5,000 M\Omega \div C(\mu F)$	Measured at 100±15VDC, For 60sec / 25°C
8-3	Capacitance	Within the tolerance specified	1KHz, 1Vrms Max. at 25°C
8-4	Dissipation Factor	0.001 (0.1%) Max.	1KHz, 1Vrms Max. at 25°C
8-5	Tense Strength of Terminal	No wire breakage and No Damage of Capacitor	1. Load Force : 1.0 Kg 2. Holding Time : 10 ± 1sec
8-6	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
8-7	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)
8-8	Solder-ability	95% Of The Surface Tinning	a. Solder temperature: 270±5°C b. Solder time: 2±0.5sec

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8-9	Heat Shock test	(1) Appearance : No Visible Damage (2) Withstand Voltage : Normal (3) Capacitance Change : $\leq \pm 3\%$ 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: $3 \pm 0.5\text{sec}$		
8-10	Cold Resistance	(1) Appearance : No Visible Damage (2) Capacitance Change : $\leq 0 \sim -10\%$ of The Initial Value	a. Test Temperature: $-40^\circ\text{C}$ b. Test Times: 2Hrs		
8-11	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: $\geq 50\%$ of the rated value	a. TEST TEMPERATURE: $110^\circ\text{C} \pm 2^\circ\text{C}$ b. Test Times: 2Hrs		
8-12	Humidity Resistance	(1) Appearance : No Visible Damage (2) Withstand Voltage : Normal (3) Capacitance Change : $\leq \pm 1\%$ of The Initial Value (4) Insulation Resistance: $\geq 50\%$ of the rated value (5) DF ( $\tan\delta$ ) $\leq 0.001$	a. TEST TEMPERATURE: $40^\circ\text{C} \pm 2^\circ\text{C}$ b. RELATIVE HUMIDITY: $90 \sim 95\%$ c. Test Times: $500 \pm 24\text{HRS}$		
8-13	Heat Resistance (Charge & Discharge)	(1) Appearance : No Visible Damage (2) DF ( $\tan\delta$ ) $\leq 0.001$ (3) Capacitance Change : $\pm 10\%$ of The Initial Value (4) Insulation Resistance: $\geq 50\%$ of the rated value	a. Test Voltage : Rated Voltage Charge for 2 sec. Discharge for 2 sec. Repeated For $1000 \pm 100$ cycles b. Test Temperature: $110^\circ\text{C} \pm 2^\circ\text{C}$		
8-14	Heat Resistance ( Continuous )	(1) Appearance : No Visible Damage (2) DF ( $\tan\delta$ ) $\leq 0.002$ (3) Capacitance Change : $\pm 10\%$ of The Initial Value (4) Insulation Resistance: $\geq 50\%$ of the rated value	a. Test Voltage : $125\%$ of The Rated Voltage for $1000\text{Vrms}$ for 0.1s every one hour during tset. b. Test Temperature: $110^\circ\text{C} \pm 2^\circ\text{C}$ c. Test Times: $1008 \pm 24\text{Hrs}$		



文件名稱

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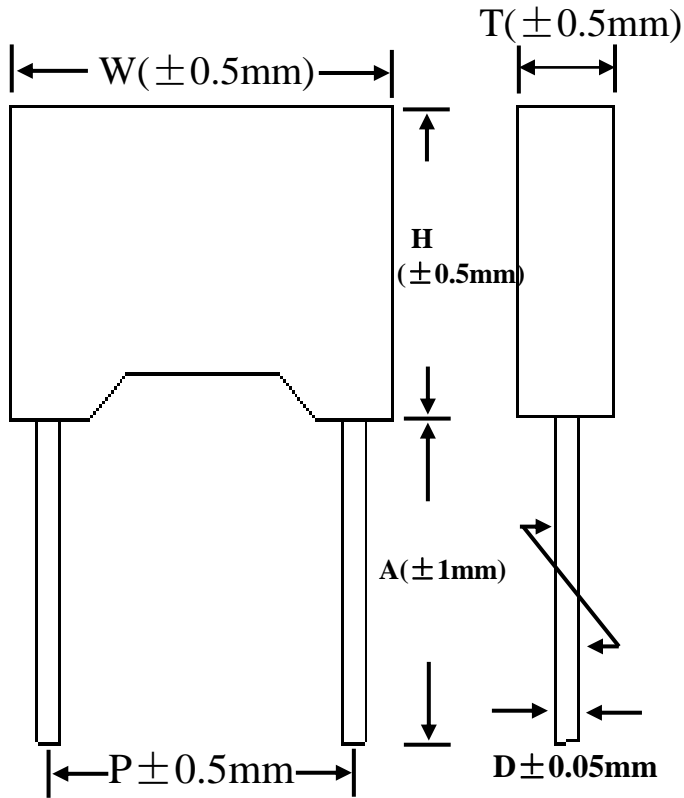
文件編號

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9. Dimensions:



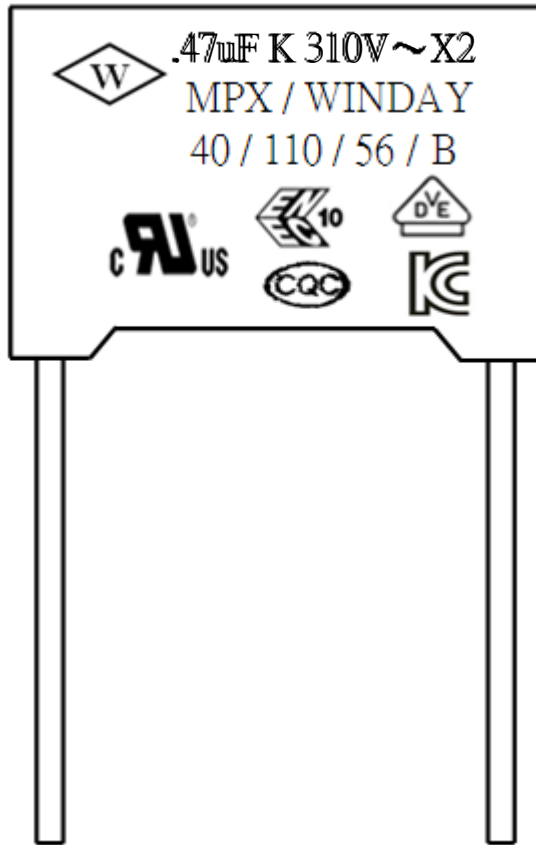
CAPACITOR BODY SIZE (Unit:mm)						
CAP	RV	BOX TYPE	W ±0.5	H ±0.5	T ±0.5	D ±0.05


Lead Style

B	K	R	U	W	T	S
					TAPING (refer to next page)	Customer Require
CAP	RV	Lead Style	B model-A section ±1mm K.R.U.W model-A section ±0.5mm	K.R.U.W model-Bsection ±0.5mm		

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### 10. Marking Example :




	WINDAY CO. LOGO
0.47uF	CAPACITANCE
K	CAPACITANCE TOLERANCE
310	RATED VOLTAGE
V~	AC VOLTAGE
X2	BOX-TYPE METALLIZED POLYPROPYLENE FILM
40/110/56	Working Lowest Temperature (- 40°C) Working highestTemperature(+110°C) Working Times (56days)
B	Class of operation

### 11.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.

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12. Sample Test Record :

CUSTOMER	WD	P/N					Part name				QUAN TITY
	TDI	P/N					Description				
SMPLING	MILSTD-1916DOL-UOS-OFULL INSP						VL 允收水準	N /	A /	R	
							Electricity:IV	/	/		
PLAN							Apperance: IV	/	/		
Sample no	Sepc limit		One	Two	Three	Four	Five	Six	Seven	Eight	
Capacitance value	( )-( )NF										
Dissipatancefactor	≥ ( )%										
Voltage Proof	( )VDC For60Sec										
Insulation resistance	≥ ( )MΩ (100VDC, 60Sec)										
Width	( )mm (±0.5mm)										
Height	( )mm (±0.5mm)										
Thickness	( )mm (±0.5mm)										
Lead Pitch	( )mm (±0.5mm)										
Lead Size	( )mm (±1mm)										
LeadDiameter	( )mm (±0.05mm)										
Test instrument		1V		Solder heat resitance				Soilder temperature		270±5°C	
								Dipping time		2±0.5Second	
Test Firequency		1KHz						Dipping depth		>95%	
								result		<input type="checkbox"/> OK <input type="checkbox"/> NG	
Result	<input type="checkbox"/> ROHS		<input type="checkbox"/> ACCEPT				<input type="checkbox"/> REJECT				
Remark											
Examin					Teste						