



CHAMPION

东莞市全鹏电子科技有限公司
DONGGUAN CHAMPION ELECTRONIC TECHNOLOGY CO., LTD.

承认书 (APPROVAL SHEET)

品名 PART NAME	METALLIZED POLYPROPYLENE FILM CAPACITOR (MPP-QP)
承认规格 APPROVE ITEM	105K160V P=27.5mm
全鹏料号 CHAMPION PART NO	MPP105J0160D312011B2815
客户名称 CUSTOMER	华秋商城
客户料号 PART NO	
送样承认日期 DATE	2020-06-30

承认印
APPROVAL STAMP

 <p>供应商 VENDER</p>	<p>客 户 CUSTOMER</p>
<p>东莞市全鹏电子科技有限公司</p> <p>联系人: 李先生</p> <p>联系电话: 15989691128</p> <p>东莞市茶山镇卢边恒兴昌工业园 B 栋 4 楼 TEL:0769-86862908 FAX:0769-86862918 www.champion-dg.com</p>	



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Dongguan Champion Electronic Technology

CO.,LTD

版本

1/A

文件名称

MPP Approval Sheet-QP
(MPP-TYPE Metallized Polypropylene
Film Interference Suppression Capacitor)

文件编号

QP-AP-28

页码

1/6

1. Scope:

This specification applied to capacitor for type MPP (Metallized Polypropylene Film Capacitor)

2. Operation Temperature:

-40°C ~ +105°C

3. Capacitance Range:

0.001uF ~ 15 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. champion Part No.:

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 1 2 3 4 5 6 7 8 9
 (tape) (capacitance) (tolerance) (rated voltage) (Dc/Ac) (Size) (lead forming) (lead pitch)
 (lead length)

6-1 tape:

Code	PEI	MEF	MEM	MPP	PEN	PPN	PPS	MEC	MET
Tape	PEI	MEF	MEM	MPP	PEN	PPN	PPS	MEC	MET

6-2 Capacitance:

Code	101	102	103	104	105	106
Capacitance	0.0001uF	0.001uF	0.01uF	0.1uF	1uF	10uF

6-3 Tolerance:

Code	F	G	H	I	J	K	M
Tolerance	±1%	±2%	±2.5%	±3%	±5%	±10%	±20%







文件名称	MPP Approval Sheet-QP (MPP-TYPE Metallized Polypropylene Film Interference Suppression Capacitor)	文件编号	QP-AP-28	页码	2/6
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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 Size:090805→(W)9*(H)8*(T)5

6-7 Lead forming:

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

6-8 Lead Pitch: Showing the capacitor lead pitch, For example:

Code	08	10	15	20	28
Pitch(mm)	7.5mm	10mm	15mm	20mm	27.5mm

6-9 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、IEC384-16)

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)	$C_R \leq 0.33\mu F$ $IR \geq 15,000M\Omega$ $C_R > 0.33\mu F$ $IR \geq 5,000 (M\Omega. \mu F)$	Measured at $100 \pm 15VDC$, For 60sec / $25^\circ C$

文件名称	MPP Approval Sheet-QP (MPP-TYPE Metallized Polypropylene Film Interference Suppression Capacitor)		文件编号	QP-AP-28	页码	3/6
No	Test items	Performance	Test Method			
7-3	Capacitance	Within the tolerance specified	1KHz, 1Vrms Max. at 25°C			
7-4	Dissipation Factor	0.001 (0.1%) 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: 3 ± 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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4/6

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: $105^{\circ}\text{C} \pm 2^{\circ}\text{C}$ 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 ($\tan\delta$) ≤ 0.001	a. TEST TEMPERATURE: $-40^{\circ}\text{C} \pm 2^{\circ}\text{C}$ b. RELATIVE HUMIDITY: $90 \sim 95\%$ c. Test Times: $240 \pm 8\text{HRS}$ d. TEST VOLTAGE: 130% of The Rated Voltage for 1 min.
7-13	Heat Resistance (Charge & Discharge)	(1) Appearance : No Visible Damage (2) DF ($\tan\delta$) ≤ 0.001 (3) Capacitance Change : $\pm 10\%$ of The Initial Value (4) Insulation Resistance: Over $3000\text{M}\Omega$	a. Test Voltage : Rated Voltage Charge for 2 sec. Discharge for 2 sec. Repeated For $100,000 \pm 1000$ cycles b. Test Temperature: $105^{\circ}\text{C} \pm 2^{\circ}\text{C}$
7-14	Heat Resistance (Continuous)	(1) Appearance : No Visible Damage (2) DF ($\tan\delta$) ≤ 0.001 (3) Capacitance Change : $\pm 7\%$ of	a. Test Voltage : 125% of The Rated Voltage b. Test Temperature: $105^{\circ}\text{C} \pm 2^{\circ}\text{C}$

	The Initial Value (4) Insulation Resistance: Over 3000M Ω	c. Test Times: 500 \pm 24Hrs
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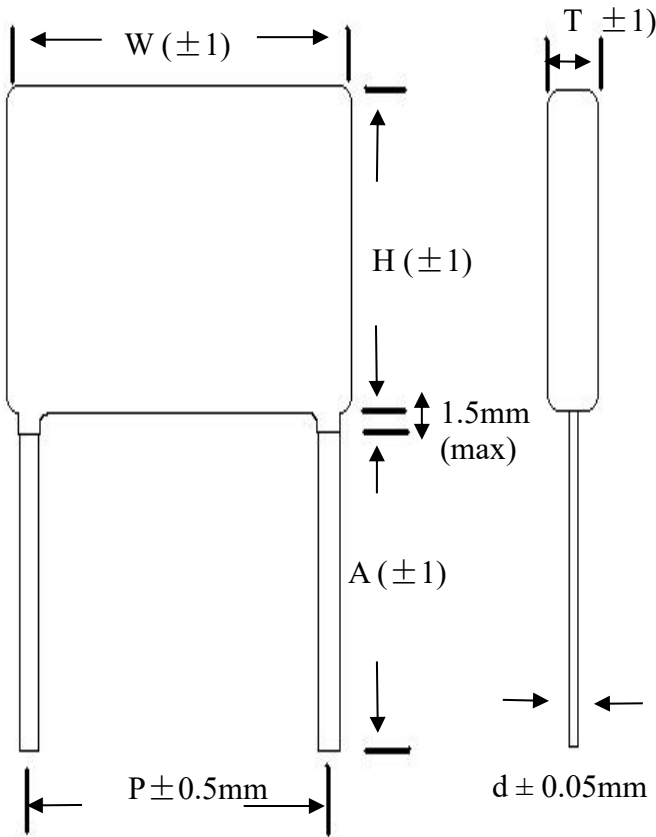
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8. Dimensions:



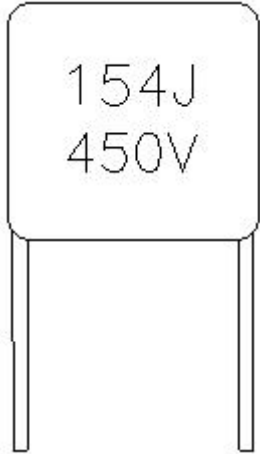
CAPACITOR BODY SIZE (Unit:mm)					
CAP	RV	W (±1)	H (±1)	T (±1)	D (±0.05)
105	160	31	20	20	0.8
125	160	31	20	20	0.8

Lead Style						
B		R	U	W	T	S
					TAPING (refer to next page)	Customer Require
CAP	RV	Lead Style	A(±0.05mm)	B(±0.05mm)		
105	160	B	15		27.5	
125	160	B	15		27.5	

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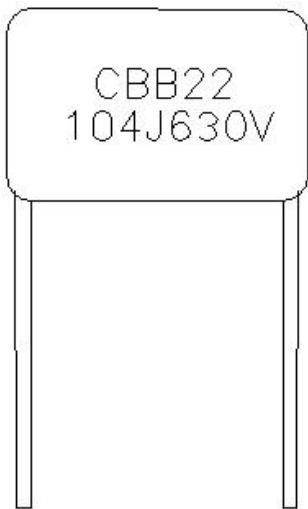
9. Marking:

① $P \leq 7.5\text{mm}$



154	CAPACITANCE
J	CAPACITANCE TOLERANCE
450V	DC RATED VOLTAGE

② $P \geq 10\text{mm}$



CBB22	CAPACITANCE MPDEL
104	CAPACITANCE
J	CAPACITANCE TOLERANCE
630V	DC RATED VOLTAGE

10. 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.