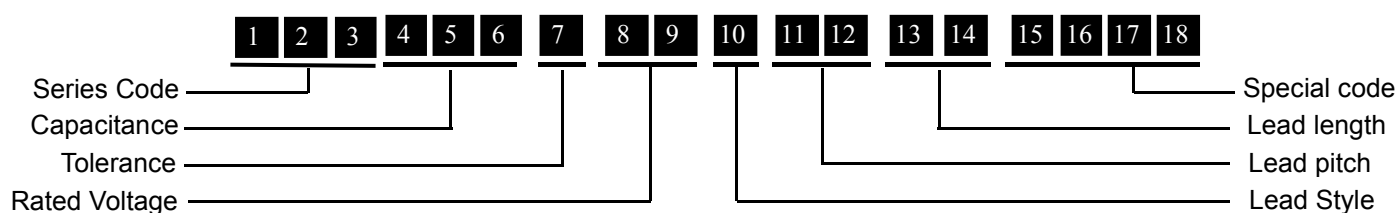


Type : MPX-M

Specification

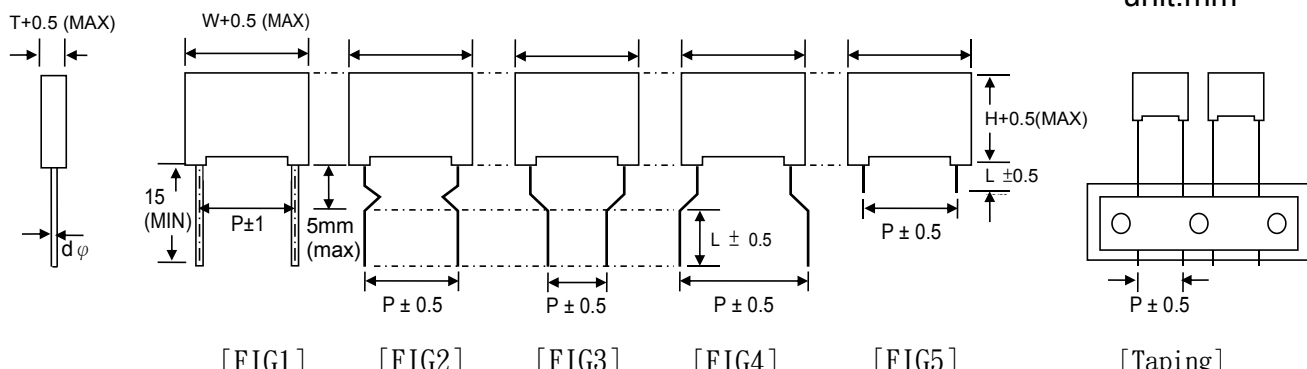
Part Numbering System



Digit 1~3	Type	MPX												
Digit 4~6	Digit 5~6 indicate the first two figures of the capacitance value and the 7th digit indicate the number of zero added to obtain the rated capacitance in pF. EX.102=1000pF=1nF=0.001μF													
Digit 7	Code		F		G		H		J		K		M	
	Tolerance		±1%		±2%		±3%		±5%		±10%		±20%	
Digit 8~9		A	B	C	D	E	F	G	H	J	K	L	M	
	1				20				50	63			1100	
	2	100	125	160	200	250	315	400	500	630	800	120		
	3	1000	1250	1600	2000	2500	3150	4000	5000	6300	8000	1200	1400	
		N	P	Q	R	S	T	U	V	W	X	Y		
	1	15	240	300	330	440	540	600	700	850	900			
	2	150	275	305	350	450	520		760	1800				
	3	1500	280	310		480	550					3000		
Letter and then number indicate AC, but number and then Letter indicate DC. EX.2A=100VDC A2=100VAC														
Digit 10	Code	A			B			C		D			X	
	Lead style	Straight lead			Kink-Cutted			Inward forming		outward forming			straight lead Cutted	
	Code	E			L			T		F			G	
	Lead style	Taping (Ammo) (Style A TP,P0=12.7mm)			Taping (Ammo) (Style A TP,P0=15.0mm)			Taping (Ammo) (Style B TP)		Taping (Ammo) (Style C TP)			Taping (Ammo) (Style D TP)	
Digit 11~12	Code	P2	P3	P4	P5	P6	P8	P9	PA	PB	PC	PD	PE	
	Pitch	3.5	4.0	4.5	5.0	6.0	7.0	7.5	8.0	9.0	10.0	31.0	15.0	
	Code	PF	PG	PH	PJ	PK	PL	PM	PN	PP	PQ	PR	PS	
	Pitch	20.0	21.0	22.0	22.5	28.5	52.5	27.5	30.0	32.5	38.5	12.5	17.5	
	Code	PT	PU	PV	PW	PX	PY	PZ	PO					
	Pitch	51.0	27.0	37.5	25.0	12.0	35.0	16.0	Axial					
Digit 13~14	Code	L1*	L2	L3	L4	L5	L6	L7*	L8	L9	LA	LB	LC	
	Length	15.0	3.5	4.0	4.5	10.0	15.0	20.0	TP	2.7	8.0	5.0	6.0	
	Code	LD*	LE	LF	LG	LH	LJ*	LK	LL	LM	LN	LP	LQ*	
	Length	26.0	7.5	5.5	12.0	7.0	25.0	13.0	6.5	3.0	9.0	2.5	17.0	
	Code	LR	LS*	LU*	LW*	LX	LY*	LZ*	LV	L0*	LT*	VL*	BL	
	Length	3.8	24.0	27.0	40.0	16.0	30.0	32.0	3.2	Axial	22	33	2.8	

Notes: * Straight,length is minimum

Digit	Code	Explanation	Code	Explanation	Code	Explanation
Digit 15~16	CT	The different size(T)	CH	The different size(H)	ZT	The different color, The different size (T) & 0.6mm
	HH	HF, The different size(H)	HD	HF, The different size(T)	ZU	The different color & The different size (H) & 0.6mm
Digit 17~18	Special Number.					
Digit 19	MPX Series. "M" :85℃,85%RH,310VAC,500H.					

Type: MPX-M			Specification						Dimension	
										
CAP. (uF)	VOLT. (VAC)	TOL. ±%	Dimension unit:mm						SCC P/N	
			W	H	T	P	dφ ±0.05	L		
0.22	310	10	18.0	12.0	6.0	15.0	0.6		MPX224KQ3*PE**ZT05M	
0.33	310	10	18.0	17.5	6.0	15.0	0.6		MPX334KQ3*PE**ZT05M	
0.33	310	10	18.0	13.5	7.5	15.0	0.8		MPX334KQ3*PE**CT09M	
0.39	310	10	18.0	14.0	8.0	15.0	0.8		MPX394KQ3*PE**CT11M	
0.47	310	10	18.0	14.5	8.5	15.0	0.8		MPX474KQ3*PE**CT12M	
0.56	310	10	18.0	16.0	10.0	15.0	0.8		MPX564KQ3*PE**CT16M	
0.68	310	10	18.0	17.5	10.0	15.0	0.8		MPX684KQ3*PE**CH12M	
0.82	310	10	18.0	18.5	11.0	15.0	0.8		MPX824KQ3*PE**CT18M	
0.82	310	10	18.0	19.0	10.0	15.0	0.8		MPX824KQ3*PE**CH16M	
1.0	310	10	18.0	21.0	12.0	15.0	0.8		MPX105KQ3*PE**CT23M	
1.2	310	10	18.0	21.5	15.0	15.0	0.8		MPX125KQ3*PE**CT36M	
0.47	310	10	26.5	15.0	6.0	22.5	0.8		MPX474KQ3*PJ**CT09M	
0.56	310	10	26.5	16.5	7.0	22.5	0.8		MPX564KQ3*PJ**CT08M	
0.68	310	10	26.5	16.5	7.5	22.5	0.8		MPX684KQ3*PJ**CT09M	
0.82	310	10	26.5	17.0	8.5	22.5	0.8		MPX824KQ3*PJ**CT12M	
1.0	310	10	26.5	18.5	8.5	22.5	0.8		MPX105KQ3*PJ**CH17M	
1.2	310	10	26.5	19.0	10.0	22.5	0.8		MPX125KQ3*PJ**CT16M	
1.5	310	10	26.5	19.0	12.5	22.5	0.8		MPX155KQ3*PJ**CT23M	
1.8	310	10	26.5	21.5	12.0	22.5	0.8		MPX185KQ3*PJ**CT23M	
2.2	310	10	26.5	24.0	13.5	22.5	0.8		MPX225KQ3*PJ**CT21M	
3.3	310	10	26.5	29.5	14.5	22.5	0.8		MPX335KQ3*PJ**CT49M	
3.3	310	20	26.5	26.5	15.0	22.5	0.8		MPX335MQ3*PJ**CT36M	
1.2	310	10	32.0	18.0	9.0	27.5	0.8		MPX125KQ3*PM**CT14M	
1.5	310	10	32.0	18.5	10.0	27.5	0.8		MPX155KQ3*PM**CT16M	
1.8	310	10	32.0	21.5	12.5	27.5	0.8		MPX185KQ3*PM**CT26M	
2.2	310	10	32.0	22.0	13.0	27.5	0.8		MPX225KQ3*PM**CT20M	

Marking

②

③

④

① — SCC 0.68 μ F K X2

④ — MPX250V~275V~310V~ — ⑤

⑥ —    

⑦ — L-A (M) 40/110/56/B — ⑧

⑨ — 003202 — ⑩

⑪

① Company Logo: SCC

② Rated Capacitance

③ Capacitance Tolerance

④ Part Name

⑤ Rated Voltage

⑥ Safety Standard Approval Logo

⑦ Date Code: Year- Month

Year	Code	Year	Code
2008/2020	A	2014/2026	J
2009/2021	B	2015/2027	H
2010/2022	C	2016/2028	J
2011/2023	D	2017/2029	K
2012/2024	E	2018/2030	L
2013/2025	F	2019/2031	M

Month	Code	Month	Code
1	1	7	7
2	2	8	8
3	3	9	9
4	4	10	0
5	5	11	N
6	6	12	S

年份周期 12 年一個輪迴, 如 CODE:A, 代表:2008 年, 2020 年, 2032 年, 2044 年…
CODE:B, 代表:2009 年, 2021 年, 2033 年, 2045 年…

⑧ Operating temperature:-40~+110℃ Experiment for 56days.
Flame retardant grade B

⑨ Internal use

⑩ Production batch number

⑪ Manufacturer code : “·” : Huizhou SCC “:” : HuaiAn SCC

Construction

⑥

3

4

5

Heavy-edge

2

1

1.Plain polypropylene

2.Zn/Al Multilayer(Anti-Oxidtion oil)

3. Metal spray(Zn+ Tin/Zn)

4. Lead wire(CP wire)

5. Epoxy resin (UL94V-0、B)

6. Case-PBT(UL94V-0、B)

Type: MPX-M Specification			Electrical Characteristics		
No	項 目 Item		性 能 Performance	條 件 Test Conditions	參考標準 Reference Standard
1	使用溫度範圍 Operating Temperature Range		-40°C ~ +110°C		IEC 60384-14 2.1.1
2	額 定 電 壓 Rated Voltage		310VAC (50/60Hz)		IEC 60384-14 2.2.3
3	耐電壓 Withstand Voltage	端 子 間 Between Terminals	無 Short 現象.	VR x430% (VDC) 60 sec, Charge and Discharge current shall not exceed 10 mA,	IEC 60384-14 4.2.1
		端子外裝間 Between Terminals & Enclosure		2120 VAC 1 min	
4	絕 緣 阻 抗 Insulation Resistance		C≦0.33μF:15,000MΩ min C>0.33μF:5,000MΩ*μF min	Charge time: 60 ±5sec. Charge voltage: 100VDC Test Temp: 20°C	IEC 60384-14 4.2.5
5	靜 電 容 量 Capacitance		於 指 定 範 圍 內 Within specified tolerance	at 1 KHz ±10% Measure voltage at 1 Vrms Test temp: 20°C	IEC 60384-14 4.2.2
6	散 逸 因 數 Dissipation Factor		0.1 %max at 1KHz	Measure voltage at 1 Vrms Test temp: 20°C	IEC 60384-14 4.2.3
7	端子強度 Terminal Strength	抗拉強度 Pull Strength	端 子 不 鬆 斷 No cutting or slack of terminals	Wire diameter: 0.6&0.8mm Load: 1 kg, time: 10 sec. Wire diameter: 1.0 mm Load: 2 kg, time: 20 sec.	IEC 60384-14 4.3
		扭轉強度 Bending Strength		Wire diameter:0.6&0.8 mm 1.0&1.2 mm 90° x 4 time	
8	焊 錫 附 著 性 Solder ability		導線浸入後的表面至少需附著 95%的新焊錫 At least 95% of the surface of the lead wire dipped into is covered with new solder.	Solder temp: 245°C ±5°C Immersion time: 2±0.5sec. Solder: SnAgCu (Sn:96.5% Ag:3% Cu:0.5%)	IEC 60384-14 4.5
9	焊錫耐熱性 Resistance to Soldering heat	外 觀 Appearance	無 明 顯 異 常 No abnormality on appearance	Solder temp: 265 ±5°C Immersion time: 10±0.5sec.	IEC 60384-14 4.4
		耐 電 壓 Withstand Voltage	依 項 目 3 Comply with item 3		
		靜電容量變化率 Capacitance Change	△C/C≦±3% Within ±3%		
		散逸因數 Dissipation Factor	於 項 目 6 範 圍 以 內 Within spec of item 6 above.		
		絕緣阻抗 Insulation Resistance	Same as the spec of item 5 above		

Type: MPX-M Specification			Electrical Characteristics																	
No	項 目 Item		性 能 Performance	條 件 Test Conditions	參考標準 Reference Standard															
10	耐 震 性 Vibration Proof		無 明 顯 異 常 No abnormality of the appearance	Frequency range 10-55-10-55 Hz Amplitude: 0.75 mm, 2 hrs/direction for 3 directions	IEC 60384-14 4.7															
11	充放電 Charging and discharging	靜電容量變化率 Capacitance Change	$\Delta C/ C \leq \pm 5\%$ (relative to the initial value)	Times:10 000 Duration of charging:0.5s Duration of discharging : 0.5s Charging voltage: rated voltage Charging resistance:220/CR(Ω) Discharging resistance: R=10/ CR(Ω) or 20(whichever is the greater) CR: rated capacitance (μF)	IEC 60384-14 4.15															
		散逸因數變化量 Dissipation Factor Change	Increase of: $\Delta DF \leq 0.5\%$ (1KHZ)																	
		絕 緣 阻 抗 Insulation Resistance	IR: $\geq 50\%$ of rated value																	
12	耐 寒 性 Cold Resistance	靜電容量變化率 Capacitance Change	$\Delta C/C \leq \pm 5\%$ Within $\pm 5\%$	Temperature: -40 $\pm 2^{\circ}C$ Duration: 96 ± 4 hrs	IEC 60384-14 4.11.4															
13	耐 熱 性 Dry Heat Resistance	絕 緣 阻 抗 Insulation Resistance	50% of minimum specified value	Temperature: +110 $\pm 2^{\circ}C$ Duration: 96 ± 4 hrs	IEC 60384-14 4.11.2															
		靜電容量變化率 Capacitance Change	$\Delta C/C \leq \pm 5\%$ Within $\pm 5\%$																	
14	溫度循環 Temperature Cycle	外 觀 Appearance	無 明 顯 異 常 No abnormality on appearance	Total: 5 cycle <table><tr><td>Step</td><td>Temp</td><td>Time</td></tr><tr><td>1</td><td>-40$\pm 2^{\circ}C$</td><td>30 ± 1min</td></tr><tr><td>2</td><td>+25$\pm 2^{\circ}C$</td><td>3min max</td></tr><tr><td>3</td><td>+110$\pm 2^{\circ}C$</td><td>30 ± 1min</td></tr><tr><td>4</td><td>+25$\pm 2^{\circ}C$</td><td>3min max</td></tr></table>	Step	Temp	Time	1	-40 $\pm 2^{\circ}C$	30 ± 1 min	2	+25 $\pm 2^{\circ}C$	3min max	3	+110 $\pm 2^{\circ}C$	30 ± 1 min	4	+25 $\pm 2^{\circ}C$	3min max	IEC 60384-14 4.6
		Step	Temp		Time															
		1	-40 $\pm 2^{\circ}C$		30 ± 1 min															
		2	+25 $\pm 2^{\circ}C$		3min max															
3	+110 $\pm 2^{\circ}C$	30 ± 1 min																		
4	+25 $\pm 2^{\circ}C$	3min max																		
耐 電 壓 Withstand Voltage	依 項 目 3 Comply with item 3																			
絕 緣 阻 抗 Insulation Resistance	50% of minimum specified value																			
靜電容量變化率 Capacitance Change	$\Delta C/C \leq \pm 5\%$ Within $\pm 5\%$																			
15	穩態濕熱試驗 Damp heat , Steady state	外 觀 Appearance	無 明 顯 異 常 No abnormality on appearance 印 字 可 辨 識 Marking to be legible	Humidity: 90~95% RH Temperature: +40 $\pm 2^{\circ}C$ Duration: 56 Days +48/-0hrs Measure after exposing at normal state for 1.5 ± 0.5 hrs.	IEC 60384-14 4.12															
		耐 電 壓 Withstand Voltage	依 項 目 3 Comply with item 3																	
		絕 緣 阻 抗 Insulation Resistance	50% of minimum specified value																	
		靜電容量變化率 Capacitance Change	$\Delta C/C \leq \pm 5\%$ Within $\pm 5\%$																	
		散逸因數變化量 Dissipation Factor Change	$\Delta DF \leq 0.8\%$ at 10KHz, C $\leq 1.0\mu F$ $\Delta DF \leq 0.5\%$ at 1KHz ,C >1.0 μF (20 $^{\circ}C$)																	

Type: MPX-M Specification			Electrical Characteristics	
No	項 目 Item	性 能 Performance	條 件 Test Conditions	參考標準 Reference Standard
16	阻燃性測試 Flammability test	1.每次火焰燃燒后每一試片的燃燒秒數不可超過 10S. Maximum flaming time per specimen per flame application:10 sec. 2.五個試片,兩次火焰燃燒的試片總燃燒秒數不能超過 50S. Maximum total flaming time ,5 specimens,2 ignitions: 50 sec. 3.每一試片最長的燃燒秒數不能超過 30S. Maximum after glow time, Per specimen: 30sec.	1.試樣數目:5PCS, Number of specimens : 5pcs 2.火焰燃燒次數:2 Number of ignitions: 2 3.火焰不可燃燒到被夾子固定之上端. Combustion flame cannot be fixed to the upper end of the clip.	UL94
17	高溫/高濕/ 負荷測試 Humidity Bias Test	外觀 Appearance	無明顯異常 No abnormality on appearance 印字可辨識 Marking to be legible	Humidity: 85%±2 RH Temperature: 85±2°C Duration: 500±24hrs Applied Voltage 310 VAC Measure after exposing at normal state for 4 hrs
		靜電容量變化率 Capacitance Change	$\Delta C/C \leq \pm 20\%$ Within $\pm 20\%$	
18	高濕/負荷 試驗 Humidity Bias Test	外觀 Appearance	無明顯異常 No abnormality on appearance	Humidity: 90~95% RH Temperature: +40 ±2°C Voltage : VR Duration: 1000+24/-0hrs
		靜電容量變化率 Capacitance Change	$\Delta C/C \leq \pm 10\%$ Within $\pm 10\%$	
19	高溫負荷 Endurance Test	外觀 Appearance	無明顯異常 No abnormality on appearance 印字可辨識 Marking to be legible	Temperature: +110 ±2°C Duration:1,000 +48/-0 hrs Applied Voltage 125% x VR through series resistor of 47Ω±5% to the Capacitor Measure after exposing at normal state for 4 hrs.
		耐電壓 Withstand Voltage	依項目 3 Comply with item 3	
		絕緣阻抗 Insulation Resistance	50% of minimum specified value	
		靜電容量變化率 Capacitance Change	$\Delta C/C \leq \pm 10\%$ Within $\pm 10\%$	
		散逸因數變化量 Dissipation Factor Change	$\Delta DF \leq 0.8\%$ at 10KHz, C ≤ 1.0μF $\Delta DF \leq 0.5\%$ at 1KHz , C >1.0μF (20°C)	

1. This capacitor is limited to $\leq 310\text{VAC}$ (Frequency $\leq 100\text{Hz}$) or $\leq 630\text{VDC}$.

此系列電容器只限用於 $\leq 310\text{VAC}$ (頻率 $\leq 100\text{Hz}$) 或 $\leq 630\text{VDC}$.

2. 電容儲存條件: 溫度: +5 ~ +35°C 濕度: $\leq 75\% \text{ RH}$

電容儲存時間: 依周期計算有效期: 兩年. (超出兩年產品電氣特性需重新選別及檢查產品外觀)