

塑膠電容器
FILM CAPACITOR

客 戶 : 信和達
 CUSTOMER : _____

客 戶 料 號 : _____
 CUSTOMER P/N : _____

品 名 : Metallized Polypropylene Film Capacitor X2
 DESCRIPTION : _____

型 式 : MPX Series
 TYPE . CODE : _____

提 供 日 期 : 2018.06.20
 OFFER DATE : _____



承認規格表

SPECIFICATION FOR APPROVAL

禁止使用《環境管理物質規範》管理物質

貴公司承認印:

Appr. Signature



Date

日期: _____ 承認後請寄回一份

Please return one copy after approval.

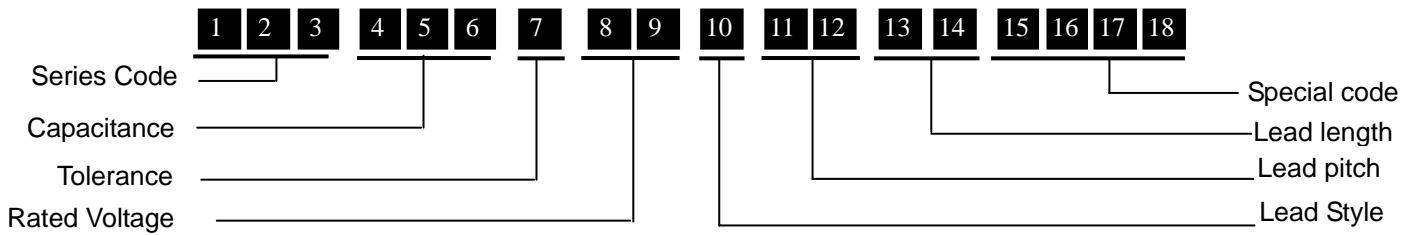
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 STRONG COMPONENTS CO.,LTD

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 Email:scc@scc-cap.com.cn

TYPE : MPX SPECIFICATION

Part Numbering System



Digit 1-3	Type	PEI	PEN	MEF	MEB	MET	MEA	MEM	MPX	EPI	MFT	MPM	MPC	MPL
		PPI	PPN	MPP	MPB	MPT	MPF	MPH	MPA	PPS	MFP	MPN	MPS	MPK
		MFA	MFB	MPQ	MPR	MET	MES	MFC						

Digit 4-6: Digit 4-5 indicate the first two figures of the capacitance value and the 6th digit indicate the number of zero added to obtain the rated capacitance in pF. EX.102=1000pF=1nF=0.001 μ F

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	N
	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	
		P	Q	R	S	T	U	V	W	X	Y			
	1	240	300	330	440	540	600	700	850	900				
	2	275	305	350	450	520		760						

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-Cuttled	Inward forming	outward forming	straight lead Cuttled
	Code	E	L	T	F	G
	Lead style	Taping (Ammo) (直脚 TP, P ₀ =12.7mm)	Taping (Ammo) (直脚 TP, P ₀ =15.0mm)	Taping (Ammo) (同等彎 TP)	Taping (Ammo) (內彎 TP)	Taping (Ammo) (外彎 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	41.0	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				

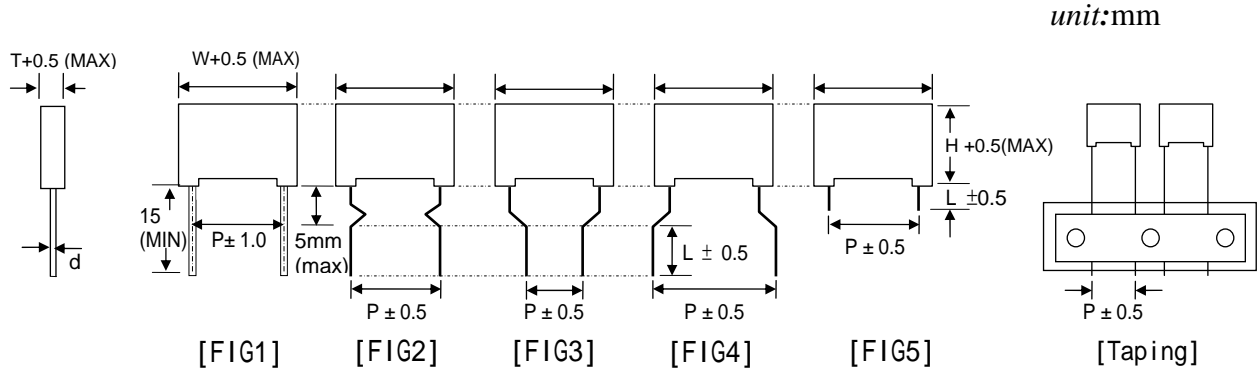
Digit 13-14	Code	L1'	L2	L3	L4	L5	L6	L7'	L8	L9	LA	LB	LC
	Length	15.0	3.5	4.0	4.5	10.0	15.0	20.0	TP	2.7	8.0	5.0	6.0
	Code	LD'	LE	LF	LG	LH	LJ'	LK	LL	LM	LN	LP	LQ'
	Length	26.0	7.5	5.5	12.0	7.0	25.0	13.0	6.5	3.0	9.0	2.5	17.0
	Code	LR	LS'	LU'	LW'	LX	LY'	LZ'	LV	LO'	LT'	VL'	
	Length	3.8	24.0	27.0	40.0	16.0	30.0	32.0	3.2	Axial	22	33	

Notes: * Straight ,length is minimum

Digit 15-16	Code	Explanation	Code	Explanation	Code	Explanation
	DT	The different size	CW	The different color (Dark blue)& The different size (W)	EL	Low noise
	HB	HF, Surge Test	CH	The different color (Dark blue)& The different size (H)	EE	Low ESR
	EA	Low noise, The different color	CT	The different color, The different size (T)	TH	Humidity Bias Test
	ET	Surge Test, The different color & size (H) & Wire(d=0.6mm)				
Digit 17-18	Special Number.					

TYPE : MPX SPECIFICATION

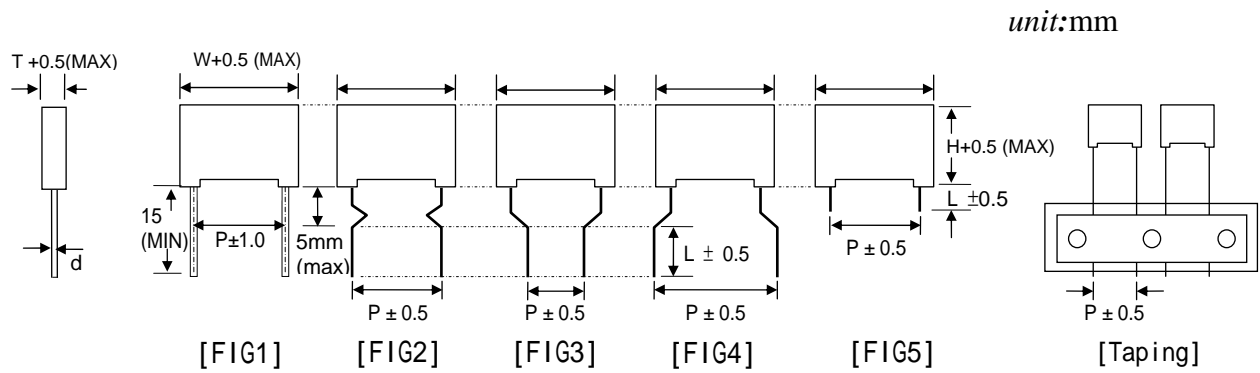
DIMENSION



CUSTOMER P/N	CAP. (uF)	VOLT. (VAC)	TOL. ±%	DIMENSION unit:mm					FIG.	SCC P/N
				W	H	T	P	d ±0.05		
	0.010	310	10	10.0	8.0	4.0	7.5	0.6		MPX103KQ3*P9**CT01
	0.010	310	10	13.0	9.0	4.0	10.0	0.6		MPX103KQ3*PC**CT01
	0.012	310	10	10.0	8.0	4.0	7.5	0.6		MPX123KQ3*P9**CT01
	0.012	310	10	13.0	9.0	4.0	10.0	0.6		MPX123KQ3*PC**CT01
	0.015	310	10	10.0	8.0	4.0	7.5	0.6		MPX153KQ3*P9**CT01
	0.015	310	10	13.0	9.0	4.0	10.0	0.6		MPX153KQ3*PC**CT01
	0.018	310	10	10.0	9.0	4.0	7.5	0.6		MPX183KQ3*P9**CH14
	0.022	310	10	10.0	9.0	4.0	7.5	0.6		MPX223KQ3*P9**CH14
	0.022	310	10	13.0	9.0	4.0	10.0	0.6		MPX223KQ3*PC**CT01
	0.033	310	10	10.0	10.0	5.0	7.5	0.6		MPX333KQ3*P9**CT03
	0.033	310	10	13.0	9.0	4.0	10.0	0.6		MPX333KQ3*PC**CT01
	0.047	310	10	10.0	10.0	5.0	7.5	0.6		MPX473KQ3*P9**CT03
	0.047	310	10	13.0	9.0	4.0	10.0	0.6		MPX473KQ3*PC**CT01
	0.047	310	10	13.0	11.0	5.0	10.0	0.6		MPX473KQ3*PC**CT03
	0.068	310	10	10.0	12.0	6.0	7.5	0.6		MPX683KQ3*P9**CT05
	0.068	310	10	13.0	11.0	5.0	10.0	0.6		MPX683KQ3*PC**CT03
	0.068	310	10	18.0	11.0	5.0	15.0	0.6		MPX683KQ3*PE**ZT03
	0.082	310	10	10.0	13.0	7.0	7.5	0.6		MPX823KQ3*P9**CT08
	0.1	310	10	10.0	13.0	7.0	7.5	0.6		MPX104KQ3*P9**CT08
	0.1	310	10	13.0	11.0	5.0	10.0	0.6		MPX104KQ3*PC**CT03
	0.1	310	10	13.0	12.0	6.0	10.0	0.6		MPX104KQ3*PC**CT05
	0.1	310	10	18.0	11.0	5.0	15.0	0.6		MPX104KQ3*PE**ZT03
	0.15	310	10	13.0	12.0	6.0	10.0	0.6		MPX154KQ3*PC**CT05
	0.15	310	10	13.0	12.0	7.0	10.0	0.6		MPX154KQ3*PC**CH02
	0.15	310	10	15.0	10.0	6.0	12.5	0.6		MPX154KQ3*PR**CH08
	0.15	310	10	18.0	11.0	6.0	15.0	0.6		MPX154KQ3*PE**ZT05
	0.18	310	10	13.0	13.0	7.0	10.0	0.6		MPX184KQ3*PC**CT08

TYPE : MPX SPECIFICATION

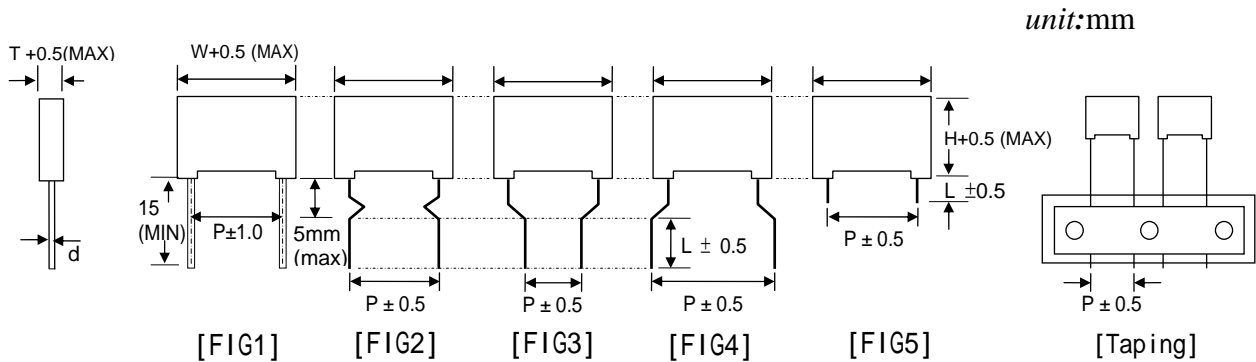
DIMENSION



CUSTOMER P/N	CAP. (uF)	VOLT. (VAC)	TOL. ±%	DIMENSION unit:mm					FIG.	SCC P/N
				W	H	T	P	d ±0.05		
	0.18	310	10	13.0	14.0	8.0	10.0	0.6		MPX184KQ3*PC**CT11
	0.18	310	10	18.0	12.0	6.0	15.0	0.6		MPX184KQ3*PE**ZT05
	0.22	310	10	12.5	16.0	6.5	10.0	0.6		MPX224KQ3*PC**CT07
	0.22	310	10	13.0	14.0	8.0	10.0	0.6		MPX224KQ3*PC**CT11
	0.22	310	10	15.0	12.5	7.0	12.5	0.6		MPX224KQ3*PR**CT08
	0.22	310	10	18.0	12.0	6.0	15.0	0.6		MPX224KQ3*PE**ZU02
	0.22	310	10	18.0	13.5	6.0	15.0	0.6		MPX224KQ3*PE**ZU03
	0.33	310	20	13.0	16.0	8.0	10.0	0.6		MPX334MQ3*PC**CT11
	0.33	310	10	13.0	18.5	8.0	10.0	0.6		MPX334KQ3*PC**CH17
	0.33	310	10	15.0	13.5	7.0	12.5	0.6		MPX334KQ3*PR**CT08
	0.33	310	10	15.0	13.0	8.5	12.5	0.6		MPX334KQ3*PR**CH07
	0.33	310	10	15.0	14.0	8.5	12.5	0.6		MPX334KQ3*PR**CT12
	0.33	310	10	18.0	13.5	6.0	15.0	0.6		MPX334KQ3*PE**ZT05
	0.33	310	10	18.0	13.0	7.0	15.0	0.8		MPX334KQ3*PE**CT08
	0.33	310	10	18.0	14.5	8.5	15.0	0.8		MPX334KQ3*PE**CT12
	0.33	310	10	26.5	12.0	6.0	22.5	0.8		MPX334KQ3*PJ**CH02
	0.47	310	10	15.0	16.0	10.0	12.5	0.6		MPX474KQ3*PR**CT16
	0.47	310	10	18.0	13.5	7.5	15.0	0.8		MPX474KQ3*PE**CT11
	0.47	310	10	18.0	17.5	6.0	15.0	0.6		MPX474KQ3*PE**ZT05
	0.47	310	10	18.0	16.0	10.0	15.0	0.8		MPX474KQ3*PE**CT16
	0.47	310	10	26.5	14.5	6.0	22.5	0.8		MPX474KQ3*PJ**CH10
	0.56	310	10	18.0	15.0	9.0	15.0	0.8		MPX564KQ3*PE**CT14
	0.56	310	10	26.5	14.5	7.0	22.5	0.8		MPX564KQ3*PJ**CT08
	0.68	310	10	18.0	16.0	10.0	15.0	0.8		MPX684KQ3*PE**CT16
	0.68	310	10	26.5	17.0	8.0	22.5	0.8		MPX684KQ3*PJ**CT11
	0.82	310	10	18.0	18.0	10.0	15.0	0.8		MPX824KQ3*PE**CH12
	0.82	310	10	26.5	16.0	8.0	22.5	0.8		MPX824KQ3*PJ**CT11

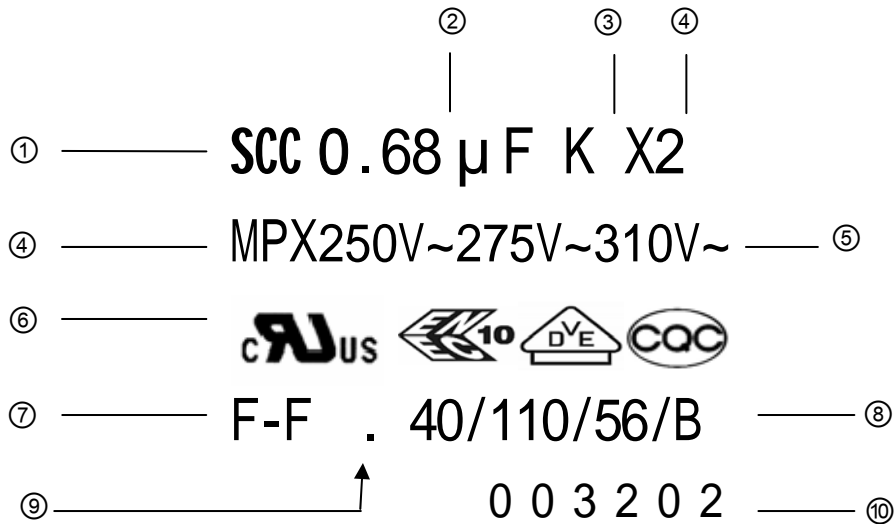
TYPE : MPX SPECIFICATION

DIMENSION



CUSTOMER P/N	CAP. (μ F)	VOLT. (VAC)	TOL. \pm %	DIMENSION unit:mm					FIG.	SCC P/N
				W	H	T	P	d \pm 0.05		
	1.0	310	10	18.0	18.5	11.0	15.0	0.8		MPX105KQ3*PE**CT18
	1.0	310	10	26.5	17.0	8.5	22.5	0.8		MPX105KQ3*PJ**CT12
	1.0	310	10	26.5	20.0	11.0	22.5	0.8		MPX105KQ3*PJ**CT18
	1.0	310	10	32.0	18.0	9.0	27.5	0.8		MPX105KQ3*PM**CT14
	1.5	310	10	26.5	21.0	10.0	22.5	0.8		MPX155KQ3*PJ**CT16
	2.2	310	10	26.5	23.0	12.0	22.5	0.8		MPX225KQ3*PJ**CT23
	2.2	310	10	26.5	24.0	13.5	22.5	0.8		MPX225KQ3*PJ**CT21
	2.2	310	10	32.0	23.5	14.0	27.5	0.8		MPX225KQ3*PM**CT24
	3.3	310	10	26.5	29.5	14.5	22.5	0.8		MPX335KQ3*PJ**CT49
	3.3	310	10	32.0	23.5	14.0	27.5	0.8		MPX335KQ3*PM**CT41
	4.7	310	10	32.0	30.5	20.0	27.5	0.8		MPX475KQ3*PM**CT38
	4.7	310	10	42.0	28.5	16.0	37.5	1.0		MPX475KQ3*PV**CT32
	6.8	310	10	32.0	41.5	22.0	27.5	0.8		MPX685KQ3*PM**CT38
	6.8	310	10	42.0	33.5	18.5	37.5	1.0		MPX685KQ3*PV**CT37
	1.0	310	10	42.0	37.0	28.0	37.5	1.0		MPX106KQ3*PV**CT62

Marking

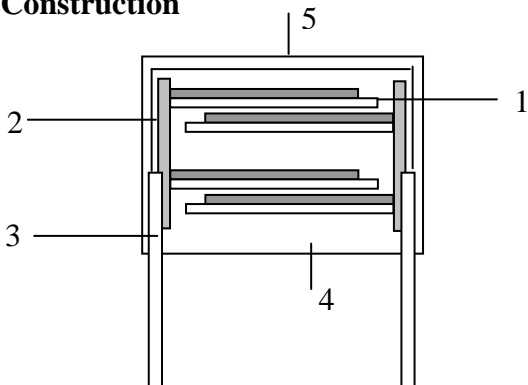


- ① **Company Logo: SCC**
- ② **Rated Capacitance**
- ③ **Capacitance Tolerance**
- ④ **Part Name**
- ⑤ **Rated Voltage**
- ⑥ **Safety Standard Approval Logo**
- ⑦ **Date Code**
- ⑧ **Operating temperature:-40~+110°C Experiment for 56days.
Flame retardant grade B**
- ⑨ **Manufacturer code : “ . ” : Huizhou SCC “:” : HuaiAn SCC**
- ⑩ **Production batch number (p ≥ 7.5mm & H ≥ 12.0mm)**

Year	Code	Year	Code
2008	A	2014	G
2009	B	2015	H
2010	C	2016	J
2011	D	2017	K
2012	E	2018	L
2013	F	2019	M

Month	Code	Month	Code
1	A	7	G
2	B	8	H
3	C	9	J
4	D	10	K
5	E	11	L
6	F	12	M

Construction



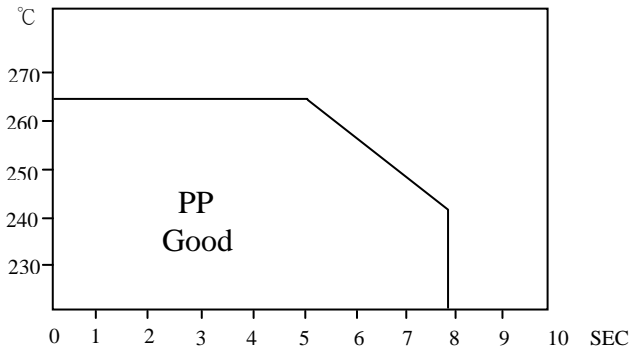
- 1 : Metallized polypropylene film(ZN/AL)
- 2 : Metal spray(Zn+ Tin/Zn)
- 3 : Lead wire(Copper-Clad steel wire)(LeadFree)
- 4 : Epoxy resin coating(UL94V-0、 B)
UL number:E204979,E105126,E102800,E343259
- 5 : Case-PBT(UL94V-0、 B)
UL number:E171666,E130155,E59481

TYPE : MPX 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		250VAC,275VAC,310VAC (50/60HZ) 630VDC(Max).		IEC 60384-14 2.2.3
3	耐電壓 Withstand Voltage	端子間 Between Terminals	無異常 No abnormality.	V _{RAC} 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:15,000M min C>0.33μF:5,000M *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	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
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 4 above		

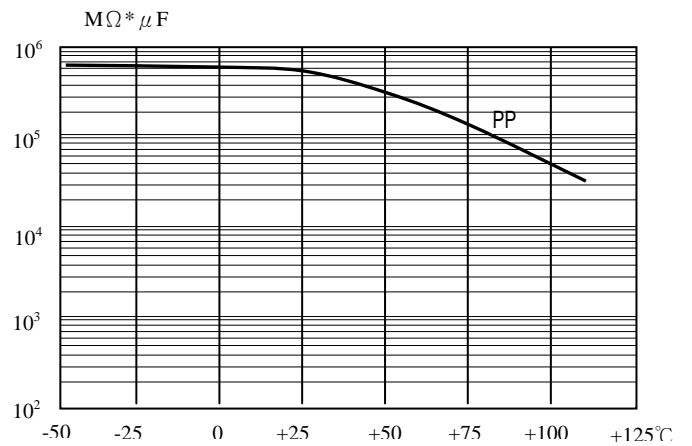
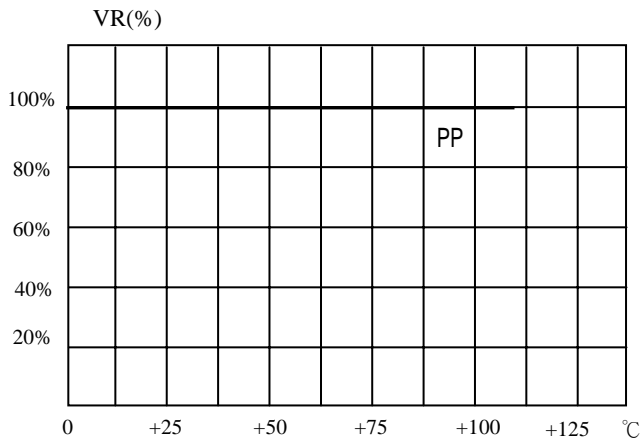
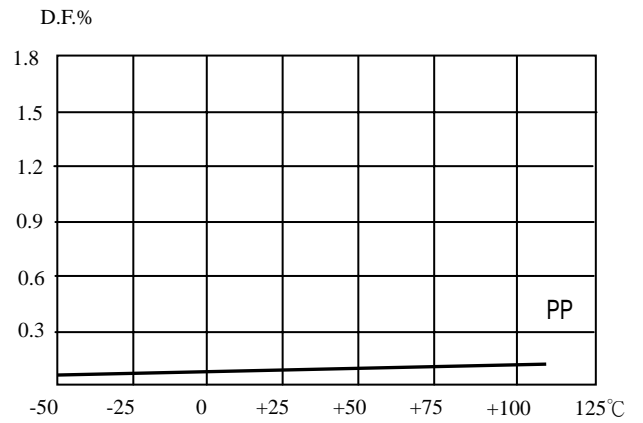
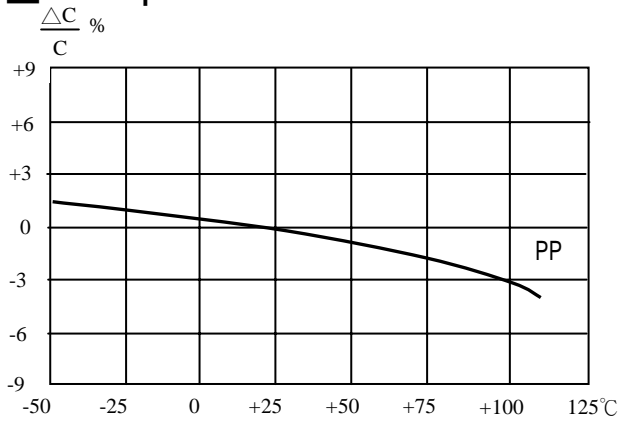
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TYPE : MPX SPECIFICATION		ELECTRICAL CHARACTERISTICS			
No	項目 Item	性能 Performance	條件 Remark	參考標準 Reference Standard	
10	焊錫附著性 Solder Ability	導線浸入後的表面至少需附著 95% 的新焊錫 At least 95% of the surface of the lead wire dipped into is covered with new solder.	Solder temp: 245°C ±5°C Immersion time: 2±.5sec. Solder: SnAgCu (Sn:96.5% Ag:3% Cu:0.5%)	IEC 60384-14 4.5	
11	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 ±2°C Duration: 96±4 hrs	IEC 60384-14 4.11.4	
12	耐熱性 Dry Heat Resistance	絕緣阻抗 Insulation Resistance	50% of minimum specified value Temperature: +110 ±2°C Duration: 96±4 hrs	IEC 60384-14 4.11.2	
		靜電容量變化率 Capacitance Change $\Delta C \leq \pm 5\%$ Within $\pm 5\%$			
13	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 ±2°C Duration: 56Days +48/-0hrs Measure after exposing at normal state for 1.5±0.5hrs.	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			$\Delta C/C \leq \pm 10\%$ Within $\pm 10\%$
		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, $C > 1.0\mu F$ (20°C)
14	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 V _R through series resistor of 20~1000 Ω to the Capacitor Measure after exposing at normal state for 4 hrs.	IEC 60384-14 4.14	
		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, $C \leq 1.0\mu F$ $\Delta DF \leq 0.5\%$ at 1KHz, $C > 1.0\mu F$ (20°C)

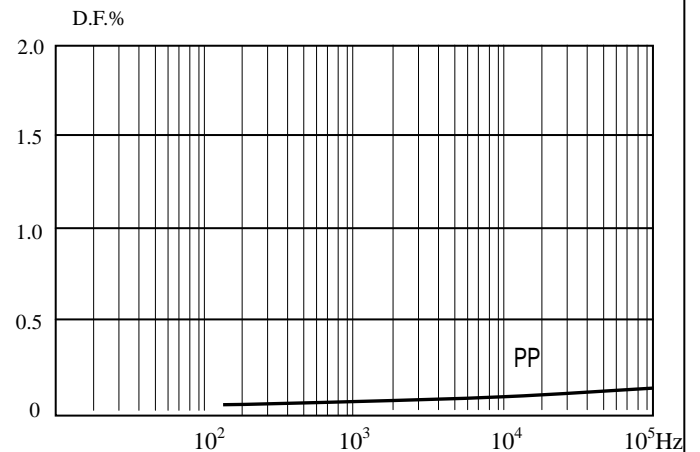
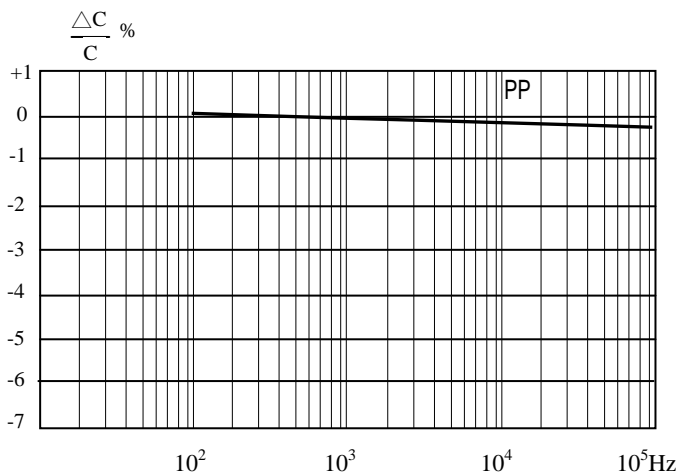
■ Soldering temperature vs time



■ Temperature characteristics

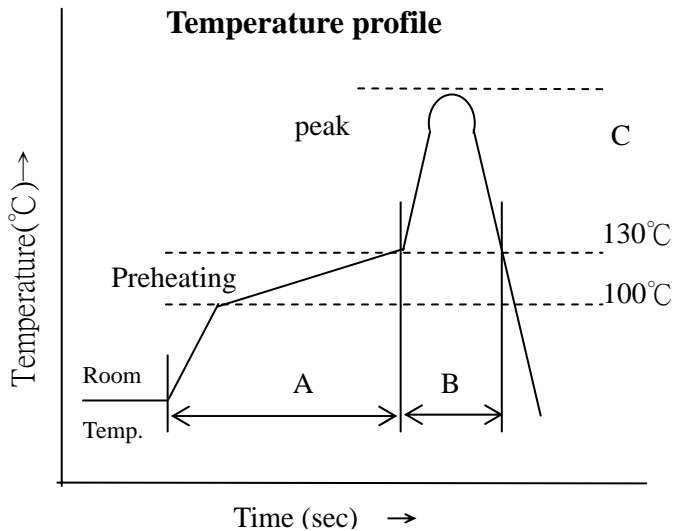


■ Frequency characteristics



Component: Film Capacitors

1. Wave flow soldering



Recommendable condition

	Conditions	Values	Unit
A	Heating time	50-100	sec
	Heating temperature	100-130	
	Temp. rise gradient	1-2	/sec
B	Dipping time *	4 (MAX)	sec
C	Peak temperature	265	
	Peak-temp. hold time	Momentary	sec

2. Requirement (Wave flow soldering):

Polypropylene film capacitors body temperature less than 130 ,60sec

Polyester film capacitors body temperature less than 150 ,60sec

3. Wave Flow soldering(solder dipping)

Peak temperature	265
Dipping time	4 sec
Soldering	1 time

4. Hand soldering

Soldering iron tip temperature	350
Soldering time	3 sec

TYPE : MPX SPECIFICATION			The Finished Packing Details		
產品類型	產品體積 V(mm ³) (寬*高*厚)	腳型	數量 (PCS/包)	袋/盒	PE 袋寬*長(cm)
所有型別(橫軸型 除外)	400	長腳	1500	4	21.5*31
		切腳	5000	4	21.5*31
	400 < V 600	長腳	1000	4	21.5*31
		切腳	2000	4	21.5*31
	600 < V 800	長腳	1000	4	21.5*31
		切腳	1000	5	21.5*31
	800 < V 1200	長腳	500	6	21.5*31
		切腳	1000	4	21.5*31
	1200 < V 1500	長腳	500	6	21.5*31
		切腳	500	4	21.5*31
	1500 < V 2400	長腳	200	8	21.5*31
		切腳	500	4	21.5*31
	2400 < V 3200	長腳	200	6	21.5*31
		切腳	200	8	21.5*31
	3200 < V 4000	長腳	200	4	30*32
		切腳	200	4	30*32
	4000 < V 5000	長腳	200	3	30*32
		切腳	200	4	30*32
	5000 < V 7000	不區分	200	3	30*32
	7000 < V 8500	不區分	200	2	30*32
	8500 < V 10000	長腳	100	3	30*32
		切腳	200	2	30*32
	10000 < V 12500	不區分	100	3	30*40
	12500 < V 15000	長腳	100	2	30*40
		切腳	100	3	30*40

STRONG COMPONENTS CO.,LTD

单击下面可查看定价，库存，交付和生命周期等信息

[>>SCC\(实全\)](#)