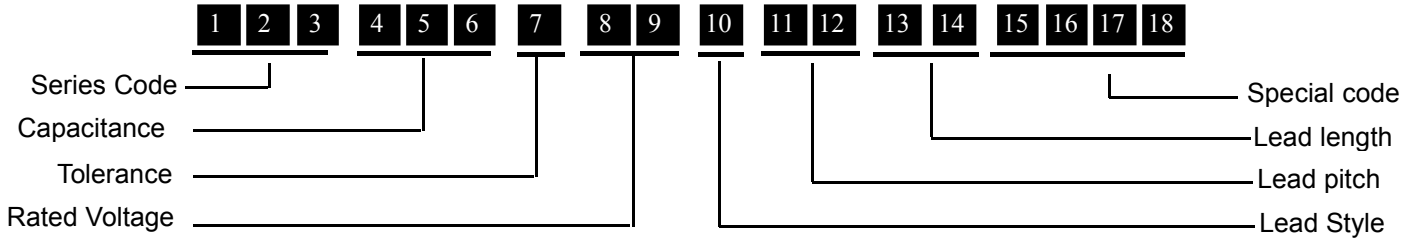
Type：MPT Specification | Part Numbering System



Digit 1~3	Type	MPT
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=0.001μF	

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	N
1				20				50	63			1100	15
2	100	125	160	200	250	315	400	500	630	800	120		150
3	1000	1250	1600	2000	2500	3150	4000	5000	6300	8000	1200	1400	1500
	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						
3	280	310		480									

Letter and then number indicate AC,but number and then Letter indicate DC.
EX.2A=100VDC A2=100VAC

Digit 10					
Code	A	T			
Lead style	Straight lead	Taping (Ammo)			

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	L0*	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 (T)				

Digit 17~18	Special Number.

Strong Components Co.,Ltd

Type ： MPT	Specification	Dimension

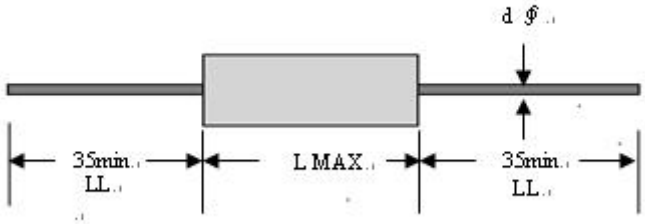
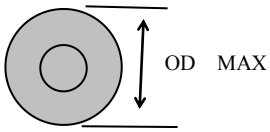


FIG 1



CAP. (uF)	VOLT. (VDC)	TOL. ±%	DIMENSION unit:mm			SCC P/N
			L	OD	dφ ±0.05	
0.068	250	10	15.0	7.0	0.6	MPT683K2EAP0L0DT08
0.10	250	10	15.0	7.0	0.6	MPT104K2EAP0L0DT08
0.15	250	10	15.0	8.0	0.6	MPT154K2EAP0L0DT11
0.22	250	10	15.0	9.0	0.6	MPT224K2EAP0L0DT14
0.33	250	10	19.0	8.0	0.8	MPT334K2EAP0L0DT11
0.47	250	10	19.0	9.0	0.8	MPT474K2EAP0L0DT14
0.68	250	10	19.0	10.0	0.8	MPT684K2EAP0L0DT16
1.0	250	10	27.0	10.0	0.8	MPT105K2EAP0L0DT16
1.5	250	10	27.0	11.5	0.8	MPT155K2EAP0L0DT22
2.2	250	10	27.0	13.5	0.8	MPT225K2EAP0L0DT21
3.3	250	10	33.0	14.5	0.8	MPT335K2EAP0L0DT49
4.7	250	10	33.0	17.0	0.8	MPT475K2EAP0L0DT40
6.8	250	10	33.0	20.0	0.8	MPT685K2EAP0L0DT37
10.0	250	10	33.0	24.0	0.8	MPT106K2EAP0L0DT51

Type ： MPT	Specification	Dimension

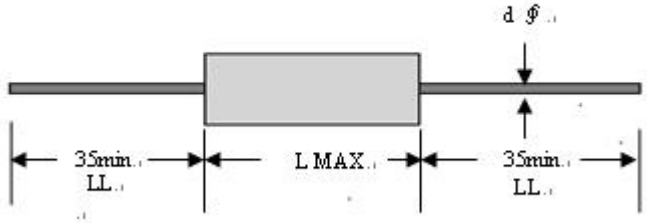
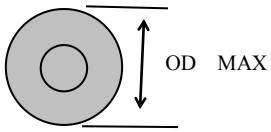


FIG 1.



CAP. (uF)	VOLT. (VDC)	TOL. ±%	DIMENSION unit:mm			SCC P/N
			L	OD	dφ ±0.05	
0.033	400	10	15.0	7.0	0.6	MPT333K2GAP0L0DT08
0.047	400	10	15.0	7.0	0.6	MPT473K2GAP0L0DT08
0.068	400	10	15.0	8.0	0.6	MPT683K2GAP0L0DT11
0.10	400	10	15.0	9.0	0.6	MPT104K2GAP0L0DT14
0.15	400	10	19.0	8.0	0.8	MPT154K2GAP0L0DT11
0.22	400	10	19.0	9.5	0.8	MPT224K2GAP0L0DT15
0.33	400	10	19.0	10.5	0.8	MPT334K2GAP0L0DT17
0.47	400	10	27.0	10.0	0.8	MPT474K2GAP0L0DT16
0.68	400	10	27.0	11.5	0.8	MPT684K2GAP0L0DT22
1.0	400	10	27.0	13.5	0.8	MPT105K2GAP0L0DT21
1.5	400	10	33.0	14.5	0.8	MPT155K2GAP0L0DT49
2.2	400	10	33.0	17.5	0.8	MPT225K2GAP0L0DT41
3.3	400	10	33.0	21.0	0.8	MPT335K2GAP0L0DT46
4.7	400	10	33.0	24.0	0.8	MPT475K2GAP0L0DT51

Type ： MPT	Specification	Dimension

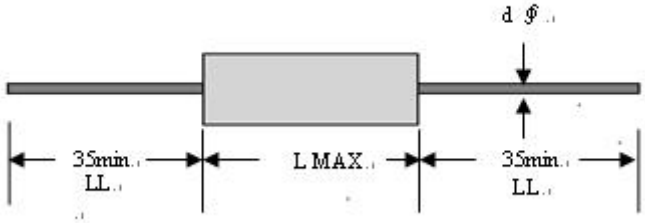
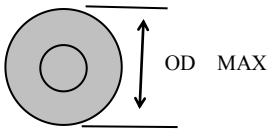


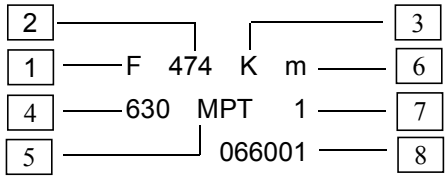
FIG 1.



CAP. (uF)	VOLT. (VDC)	TOL. ±%	DIMENSION unit:mm			SCC P/N
			L	OD	dφ ±0.05	
0.010	630	10	15.0	6.5	0.6	MPT103K2JAP0L0DT07
0.015	630	10	15.0	6.5	0.6	MPT153K2JAP0L0DT07
0.022	630	10	15.0	7.0	0.6	MPT223K2JAP0L0DT08
0.033	630	10	15.0	8.5	0.6	MPT333K2JAP0L0DT12
0.047	630	10	19.0	7.5	0.8	MPT473K2JAP0L0DT09
0.068	630	10	19.0	8.5	0.8	MPT683K2JAP0L0DT12
0.10	630	10	19.0	10.0	0.8	MPT104K2JAP0L0DT16
0.15	630	10	19.0	11.5	0.8	MPT154K2JAP0L0DT22
0.22	630	10	27.0	11.5	0.8	MPT224K2JAP0L0DT22
0.33	630	10	27.0	13.0	0.8	MPT334K2JAP0L0DT20
0.47	630	10	27.0	15.0	0.8	MPT474K2JAP0L0DT26
0.68	630	10	33.0	16.5	0.8	MPT684K2JAP0L0DT50
1.0	630	10	33.0	19.0	0.8	MPT105K2JAP0L0DT52
1.5	630	10	33.0	23.5	0.8	MPT155K2JAP0L0DT61

Type：MPT Specification	Marking and lead forming

Marking

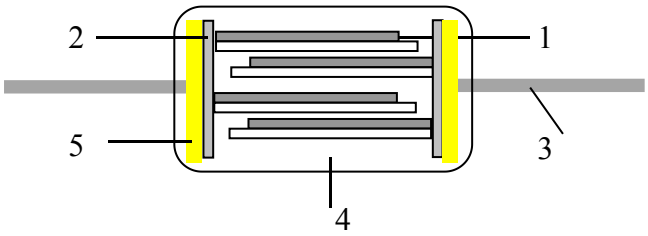


1	：Company symbol	2	：Capacitance	3	：Tolerance	4	：Rated voltage
5	：Type name	6	：Year / Month	7	：Week	8	：Production batch number (L≧18mm,OD≧10.0mm)

Year	Month	Mark	Year	Month	Mark	Year	Month	Mark	Year	Month	Mark
2021 2025 …	1	A	2022 2026 …	1	N	2023 2027 …	1	a	2024 2028 …	1	n
	2	B		2	P		2	b		2	p
	3	C		3	Q		3	c		3	q
	4	D		4	R		4	d		4	r
	5	E		5	S		5	e		5	s
	6	F		6	T		6	f		6	t
	7	G		7	U		7	g		7	u
	8	H		8	V		8	h		8	v
	9	J		9	W		9	j		9	w
	10	K		10	X		10	k		10	x
	11	L		11	Y		11	l		11	y
	12	M		12	Z		12	m		12	z

周期 4 年一個輪迴,如 CODE:A,代表:2017 年 1 月,2021 年 1 月,2025 年 1 月,2029 年 1 月,2033 年 1 月…
CODE:B,代表:2017 年 2 月,2021 年 2 月,2025 年 2 月,2029 年 2 月,2033 年 2 月…

Construction



1：Metallized polypropylene film
2：Metal spray
3：Lead wire
4：Mara tape:UL510 yellow polyester tape wrap
5：Epoxy resin:
UL94V-0 yellow flame retardant epoxy resin

Type：MPT Specification			Electrical Characteristics			
No	項 目 Item		性 能 Performance		條 件 Test Conditions	參考標准 Reference Standard
1	使 用 溫 度 範 圍 Operating Temperature Range		-40°C ～ +110°C (+85℃ to 110℃:decreasing Factor 1.25%per℃ for VR(DC)			IEC 60384-16 2.1.12.2.5
2	額 定 電 壓 Rated Voltage		250VDC,400VDC, 630VDC			IEC 60384-14 2.2.3
3	耐電壓 Withstand Voltage	端 子 間 Between Terminals	無 Short 現 象.		Rated voltage x 160% 10 sec Charge and discharge current shall not exceed 10 mA	IEC 60384-16 4.2.1
		端子外裝間 Between Terminals & Enclosure				
5	絕 緣 阻 抗 Insulation Resistance		C≦0.33μF	VR≦100V 50,000 MΩ VR ＞ 100V 100,000 MΩ	Charge time: 60 ±5sec. Charge voltage: VR < 100VDC: 50VDC VR < 500VDC: 100VDC VR ≧ 500VDC. 500VDC Test Temp: 20°C	IEC 60384-16 4.2.4
			C＞0.33μF	VR≦100V 15,000 S VR＞100V 30,000 S		
6	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 60384-16 4.2.2
7	散 逸 因 數 Dissipation Factor		0.1 %max at 1KHz		Measure voltage at 1 Vrms Test temp: 20°C	IEC 60384-16 4.2.3
8	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 60384-16 4.3
		扭轉強度 Bending Strength			Wire diameter:0.6&0.8 mm 1.0&1.2 mm 90° x 4 time	
9	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 60384-16 4.7
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℃ ±5°C Immersion time: 2±0.5sec. Solder: SnAgCu (Sn:96.5% Ag:3% Cu:0.5%)	IEC 60384-16 4.5
11	耐 寒 性 Cold Resistance	靜電容量化率 Capacitance Change	△C/C≦±5% Within ±5%		Temperature: -40 ±2°C Duration: 96±4 hrs	IEC 60384-16 4.10.4

Type：MPT Specification			Electrical Characteristics		
No	項 目 Item		性 能 Performance	條 件 Test Conditions	參考標准 Reference Standard
12	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 60384-16 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 7 範圍以內 Within spec of item 7 above.		
		絕緣阻抗 Insulation Resistance	Same as the spec of item 5 above		
13	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 60384-16 4.10.2
		靜電容量變化率 Capacitance Change	△C/C≦±5% Within±5%		
14	溫度循環 Temperature Cycle	外 觀 Appearance	無明顯異常 No abnormality on appearance	Total: 5 cycle Step / Temp / Time 1 / -40±2°C / 30 ±1min 2 / +25±2°C / 3min max 3 / +110±2°C / 30 ±1min 4 / +25±2°C / 3min max	IEC 60384-16 4.6
		耐電壓 Withstand Voltage	依項目 3 Comply with item 3		
		絕緣阻抗 Insulation Resistance	50% of minimum specified value		
		散逸因數 Dissipation Factor Change	△DF≦ 0.3%at 1KHz(20°C)		
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 ±2°C Duration: 56Days +48/-0hrs Measure after exposing at normal state for 1.5±0.5hrs.	IEC 60384-16 4.11
		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	△C/C≦±5% Within ±5%		
		散逸因數變化量 Dissipation Factor Change	△DF≦ 0.1% at 1KHz(20°C)		

Type：MPT Specification			Electrical Characteristics		
No	項　目 Item		性　能 Performance	條　件 Test Conditions	參考標准 Reference Standard
16	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: +85 ±2°C Duration:1,000 +48/-0 hrs Applied Voltage 125% x V_R through series resistor of 20~1000Ω/V to the Capacitor Measure after exposing at normal state for 4 hrs.	IEC 60384-16 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	△C/C≦±5% Within ±5%		
		散逸因數變化量 Dissipation Factor Change	△DF≦ 0.2%at 10KHz(20°C)		

電容儲存條件:

溫度: +5 ~ +35℃

濕度: ≦ 75% 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

Strong Components Co.,Ltd