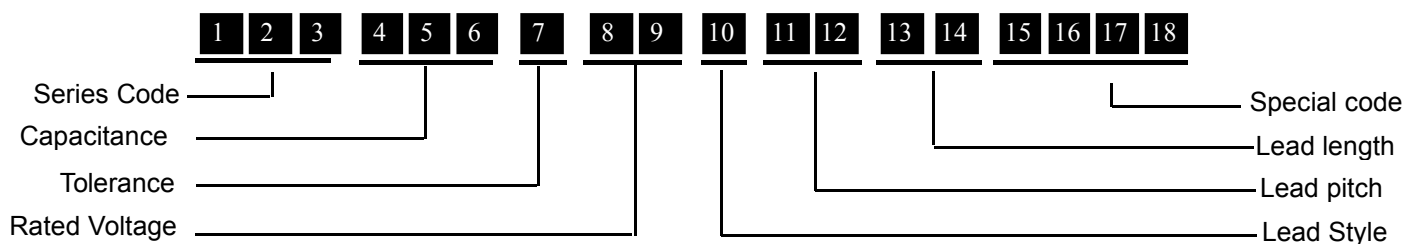


Type : MEM Specification

Part Numbering System



Digit 1~3	Type	MEM													
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			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) (直脚 TP,Po=12.7mm)			Taping (Ammo) (直脚 TP, Po=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	Code	Explanation	Code	Explanation	Code	Explanation
Digit 15~16	DT	The different size(T)	DH	The different size(H)	EL	Low noise, The different size(T)
	HH	HF,The different size(H)	HT	HF, The different size(T)		
Digit 17~18	Special Number.					

Type : MEM 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℃ ~ +125℃ (+85℃ to 125℃:decreasing Factor 1.25% per℃ for VR(DC))			IEC 60384-2 2.1.1 2.2.5
2	額 定 電 壓 Rated Voltage		100VDC,250VDC,400VDC			IEC 60384-2 2.1.4
3	耐電壓 Withstand Voltage	端 子 間 Between Terminals 端子外裝間 Between Terminals & Enclosure	No abnormality.		Rated voltage x 140% 2 sec Charge and discharge current shall not exceed 10 mA	IEC 60384-2 4.2.1
4	絕 緣 阻 抗 Insulation Resistance		C≦0.33μF	3,750MΩ	Charge time: 60 ±5sec. Charge voltage: VR< 100VDC: 10VDC VR≧ 100VDC:100VDC Test Temp: 20℃	IEC 60384-2 4.2.4
			C>0.33μF	1,250MΩ*μF		
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℃	IEC 60384-2 4.2.2
6	散 逸 因 數 Dissipation Factor		1.0 %max at 1KHz		Measure voltage at 1 Vrms Test temp: 20℃	IEC 60384-2 4.2.3
7	端子強度 Terminal Strength	抗拉強度 Pull Strength 扭轉強度 Bending Strength	端 子 不 鬆 斷 No cutting or slack of terminals		Wire diameter: 0.6&0.8 mm Load: 1 kg, time: 10 sec. Wire diameter: 1.0& 1.2mm Load: 2 kg, time: 20 sec. Wire diameter: 0.6 & 0.8 mm 1.0 & 1.2mm 90° x 4 time	IEC 60384-2 4.3
8	耐 震 性 Vibration Proof		無 明 顯 異 常 No abnormality of the appearance		Frequency range:10-55-10-55 Hz Amplitude: 0.75mm, 2 hrs/direction for 3 directions	IEC 60384-2 4.7
9	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℃ Immersion time: 2 ±0.5sec. Solder: SnAgCu (Sn:96.5% Ag:3% Cu:0.5%)	IEC 60384-2 4.5
10	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℃ Immersion time: 10±0.5 sec.	IEC 60384-2 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 7 above.			
		絕緣阻抗 Insulation Resistance	Same as the spec of item 6 above			

Type : MEM Specification				Electrical Characteristics																		
No	Item		Performance	Test Conditions			Reference Standard															
11	耐寒性 Cold Resistance	靜電容量變化率 Capacitance Change	Within ±5%	Temperature: -40 ±2°C Duration: 96±4 hrs			IEC 60384-2 4.10.4															
12	耐熱性 Dry Heat Resistance	絕緣阻抗 Insulation Resistance	50% of minimum specified value	Temperature: +85 ±2°C Duration: 96±4hrs			IEC 60384-2 4.10.2															
		靜電容量變化率 Capacitance Change	Within ±5%																			
13	溫度循環 Temperature Cycle	外觀 Appearance	無明顯異常 No abnormality on appearance	Total: 6 cycle <table><tr><td>Step</td><td>Temp</td><td>Time</td></tr><tr><td>1</td><td>-40±2°C</td><td>30 ±1min</td></tr><tr><td>2</td><td>+25±2°C</td><td>10~15min</td></tr><tr><td>3</td><td>+85±2°C</td><td>30 ±1min</td></tr><tr><td>4</td><td>+25±2°C</td><td>10~15min</td></tr></table>			Step	Temp	Time	1	-40±2°C	30 ±1min	2	+25±2°C	10~15min	3	+85±2°C	30 ±1min	4	+25±2°C	10~15min	IEC 60384-2 4.6
		Step	Temp				Time															
		1	-40±2°C				30 ±1min															
		2	+25±2°C				10~15min															
		3	+85±2°C				30 ±1min															
		4	+25±2°C				10~15min															
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	Within ±5%																					
散逸因數 Dissipation Factor Change	ΔDF ≡ 1.0 %at 1KHz (20°C)																					
14	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: 504 ± 1 hrs Measure after exposing at normal state for 1.5±0.5 hrs.			IEC 60384-2 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%max at 1KHz(20°C)																			
15	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 VR through series resistor of 20~1000Ω/V to the Capacitor Measure after exposing at normal state for 4 hrs.			IEC 60384-2 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%max at 1KHz(20°C)																			

Storage conditions for capacitors:

Temperature: $+5 \sim +35^{\circ}\text{C}$

Humidity: $\leq 75\%$ RH

Capacitor storage time:

Calculated by cycle, the validity period is two years (If the electrical characteristics of the product exceed two years, it is necessary to reselect and inspect the appearance of the product)

Strong Components Co.,Ltd