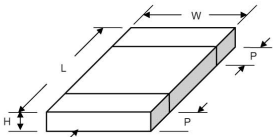


MULTILAYER CERAMIC CHIP CAPACITORS

積層陶瓷晶片電容器

• DIMENSIONS 外觀尺寸



SIZE 尺寸	TYPE 類型			
	1005(0402)	1608(0603)	2012(0805)	3216(1206)
L mm (in)	1.0±0.05 (.040±.002)	1.6±0.15 (.063±.004)	2.0±0.2 (.080±.008)	3.2±0.2 (.126±.008)
W mm (in)	0.5±0.05 (.020±.002)	0.8±0.1 (.033±.004)	1.2±0.2 (.050±.008)	1.6±0.2 (.063±.008)
T mm (in)	0.55 (.022) max.	1.0 (.039) max.	1.0 (.039) max.	1.25 (.049) max.
P mm (in)	0.25±0.1 (.010±.004)	0.5±0.2 (.020±.008)	0.5±0.2 (.020±.008)	0.5±0.2 (.020±.008)

• SPECIFICATION 規格明細

Temperature Characteristics 溫度係數	NPO	X7R	Y5V
Operation Temperature Range 操作溫度範圍	-55°C ~ +125°C	-55°C ~ +125°C	-30°C ~ +85°C
Capacitance Change 電容值變化	0± 30ppm/°C	± 15% max.	+22% ~ -82% max.
Rated Working Voltage (DC) 工作電壓	25V, 50V, 100V	16V, 25V, 50V, 100V, 250V, 500V, 630V, 1KV	10V, 16V, 25V, 50V
Capacitance Range (at 25°C) 電容值範圍	0.5pF to 4,700pF	100pF to 10 μF	1,000pF to 10 μF
Capacitance Tolerance 電容誤差值	± 0.25pF, ± 0.50pF ± 5%, ± 10%	± 10%, ± 20%	± 20%, +80% -20%
Dissipation Factor (at 25°C) 散逸因子	0.1% max at 1V rms	2.5% max at 1V rms 3.5% max for 16V W.V.	7% max at 0.5V rms 12.5% max for 10V W.V.
Test Frequency 測試頻率	1M Hz± 50KHz, 1V rms (for 1000pF or less) 1K Hz± 50Hz, 1V rms (for cap. over 1000pF)	1K Hz± 50Hz, 1V rms	1K Hz± 50Hz, 1V rms
Insulation Resistance (at 25°C) 絕緣電阻	100GΩ or 1000MΩ x μF whichever is less	10GΩ or 1000MΩ x μF whichever is less	10GΩ or 1000MΩ x μF whichever is less
Dielectric Strength 誘電強度	Withstand 250% of rated working voltage with 50mA current max, 5 sec.		

● CAPACITANCE RANGE 電容值範圍

TYPE 類別	NPO (pF)						
W.V.(DC)	25V	50V	100V	250V	500V	630V	1KV
0402		0.5 ~ 120					
0603	0.5 ~ 1,000		1.0 ~ 330	1.0 ~ 100			
0805		0.5 ~ 2,400	1.0 ~ 1,500	1.0 ~ 560	1.0 ~ 220		
1206			1.0 ~ 4,700	1.0 ~ 1,800	1.0 ~ 1,800	1.0 ~ 1,000	1.0 ~ 120

TYPE 類別	X7R (pF)							
W.V.(DC)	16V	25V	50V	100V	250V	500V	630V	1KV
0402	8,200 ~ 33,000	4,700 ~ 6,800	220 ~ 3,900					
0603	18,000 ~ 100,000	10,000 ~ 27,000	180 ~ 22,000	100 ~ 10,000	100 ~ 5,600			
0805	10,000 ~ 1,000,000	10,000 ~ 150,000	150 ~ 100,000	100 ~ 47,000	100 ~ 27,000			
1206	330 ~ 10,000,000	330 ~ 330,000	330 ~ 150,000	100 ~ 150,000	100 ~ 100,000	180 ~ 15,000	180 ~ 6,800	100 ~ 2,200

TYPE 類別	Y5V (pF)			
W.V.(DC)	10V	16V	25V	50V
0402		33,000 ~ 100,000	22,000	1,000 ~ 15,000
0603	47,000 ~ 1,000,000	47,000 ~ 330,000	33,000 ~ 100,000	1,000 ~ 100,000
0805	220,000 ~ 2,200,000	220,000 ~ 100,000	1,000 ~ 330,000	1,000 ~ 220,000
1206	220,000 ~ 10,000,000	220,000 ~ 4,700,000	68,000 ~ 1,000,000	1,000 ~ 470,000

● CONSTRUCTION 結構

