

Multilayer Ceramic Chip Capacitor

ARRAY TYPE MLCC

FEATURES

- Reduction in required real estate (more than 50%).
- Reduced Cost,Space and Time for placement on PCB ,reduction in number of solder joints..
- Easier PCB design , reduced waste from tape and reel packaging process.
- It protect EMI bypassing digital signal line noise..

APPLICATIONS

- Mother board , Notebook , Electronic device etc.....

1.Product Identification

MA	6	N	1H	100	K	T	A	N
1-1	1-2	1-3	1-4	1-5	1-6	1-7	1-8	1-9

1-1. MA UWA Capacitor Array Type MLCC

1-2. 6 Size

Code	EIA Code	Length * Width mm / (inch)
5	0805	2.00 * 1.20 / (0.08 * 0.05)
6	1206	3.20 * 1.60 / (0.12 * 0.06)

1-3. N Temperature Characteristic

Code	Temperature Characteristic	Operation Temperature Range
N	NPO	-55℃ ~ +125℃
X	X7R	-55℃ ~ +125℃
Y	Y5V	-30℃ ~ + 85℃

1-4. 1H Rated Voltage

Code	Rated Voltage
1C	16V
1E	25V
1H	50V

1-5. 100 Capacitance

Code	Capacitance (pF)	Code	Capacitance (pF)
0R5	0.5	101	100
010	1	102	1,000 (1nF)
100	10	104	100,000 (100nF)

1-6. K Capacitance Tolerance

Code	Tolerance
K	± 10 %
M	± 20 %
Z	- 20 ~ + 80 %

1-7. **T** Quantity (Unit : pcs)

Code	A	B	T	U	V	W	X	Y	Z
7 "	15K	10K	4K	3K	2.5K	2K	1K	700	500

1-8. **A** Thickness (Unit : mm)

Code	S	A	D	F	G		
Thickness	0.6±0.1	0.8±0.1	0.85±0.1	1.15±0.1	1.25±0.2		

1-9. **N** Material Option

Code	Description Of The Code
N	Sn – Pb Plating (Sn 90% , Pb 10%)
X	Pb – Free Plating (Sn 90% , Pb 10%)
G	Green Device (Sn 90% , Pb 10%)

2. Standard Combination of Nominal Capacitance and Tolerance

Class	Temperature Characteristic	Tolerance		Nominal Capacitance
Class I	NPO	More Than 10pF	J(±5 %)	E-24 series
			K(±10 %)	
Class II	X7R	K(±10.0 %) , M(±20 %)		E-12 series
	Y5V	M(±20.0 %) , Z(-20 ~ +80%)		E- 6 series

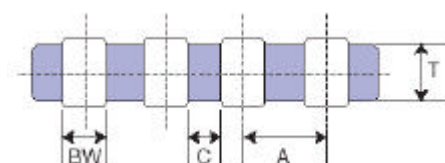
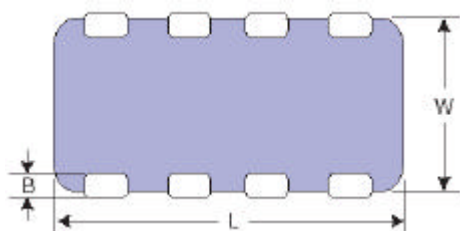
Application Capacitance

	Application Capacitance											
E-3	1.0				2.2				4.7			
E-6	1.0		1.5		2.2		3.3		4.7		6.8	
E-12	1.0	1.2	1.5	1.8	2.2	2.7	3.3	3.9	4.7	5.6	6.8	8.2
E-24	1.0	1.2	1.5	1.8	2.2	2.7	3.3	3.9	4.7	5.6	6.8	8.2
	1.1	1.3	1.6	2.0	2.4	3.0	3.6	4.3	5.1	6.2	7.5	9.1

3.Dimension & Structure

(Unit : mm)

Code	L	W	T(max)	B(min)	Bw(min)
0805	2.00±0.20	1.25±0.20	1.0	0.10	0.25±0.15
1206	3.20±0.30	1.60±0.20	1.35	0.10	0.40±0.2



4.Capacitance Range

Temperature Characteristic	Size Code	Rated Voltage	Capacitance Range (pF)								
			0R5	100	101	102	103	104	105	106	107
NPO	(0805) 1206 4 CAP	50V	470								
X7R		16V	470 100,000								
		25V	470 47,000								
		50V	470 22,000								
Y5V		16V	10,000 220,000								
		25V	10,000 220,000								
		50V	10,000 47,000								