

# Multilayer Ceramic Chip Capacitor

## ARRAY TYPE MLCC

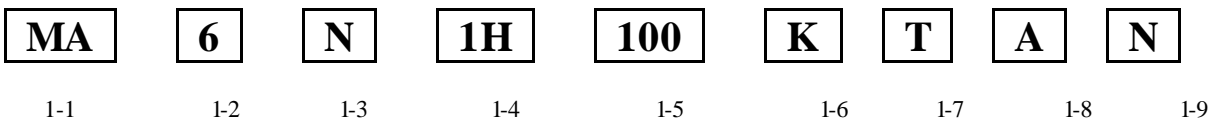
**FEATURES**

- . 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**



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

