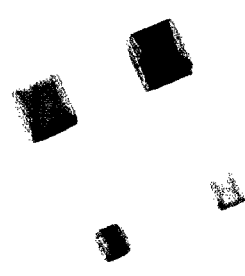


# MONOLITHIC CERAMIC CAPACITORS MINIATURE CERAMIC CAPACITORS MA SERIES



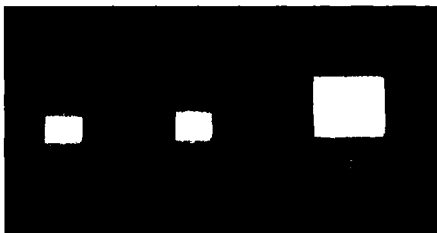
CAPACITORS



## FEATURES

- Miniature size
- Very high Q at high frequencies
- High RF power capabilities
- Impervious to environmental conditions
- Low dissipation factors
- Excellent retrace capability (not applicable for X7R styles)
- High temperature stability
- Low noise

- Meets Mil-C-55681 with respect to: Shock, Vibration, Moisture Resistance, Solderability, Barometric Pressure, Temperature Cycling, Immersion and Salt Spray
- Packaging options
- Lot processing data available



4X ACTUAL SIZE

For filtering, coupling and impedance matching in most RF circuits, the MA Series chips and leaded devices offer outstanding performance and reliability with the greatest range of values and configurations. MA Series capacitors are also available in military grade CDR styles, consult factory.

MA Series ceramic fixed capacitors are miniature, high performance precision components having extremely high Q and high power capabilities from low frequencies to gigahertz ranges. These "porcelain" multilayer capacitors are extremely stable with variations in temperature, voltage and frequency, and are capable of withstanding the environments encountered in space applications.

MA Series capacitors are designed for miniature state-of-the-art circuit applications. They are small, easy to apply and have extreme reliability. Units are available in ultra-miniature case size 1 (.055" x .055" x .055")

or miniature case size 2 (.110" x .110" x .100"). Standard case size 1 units are available as chips. Standard case size 2 units are available as chips and also in a leaded configuration.

Clean-room manufacturing technology assures product reliability and automated processing reduces costs and cycle time. Key stages of the operation are monitored and controlled with SPC techniques. Flexibility in design allows the production of non-standard values while maintaining consistent quality objectives.

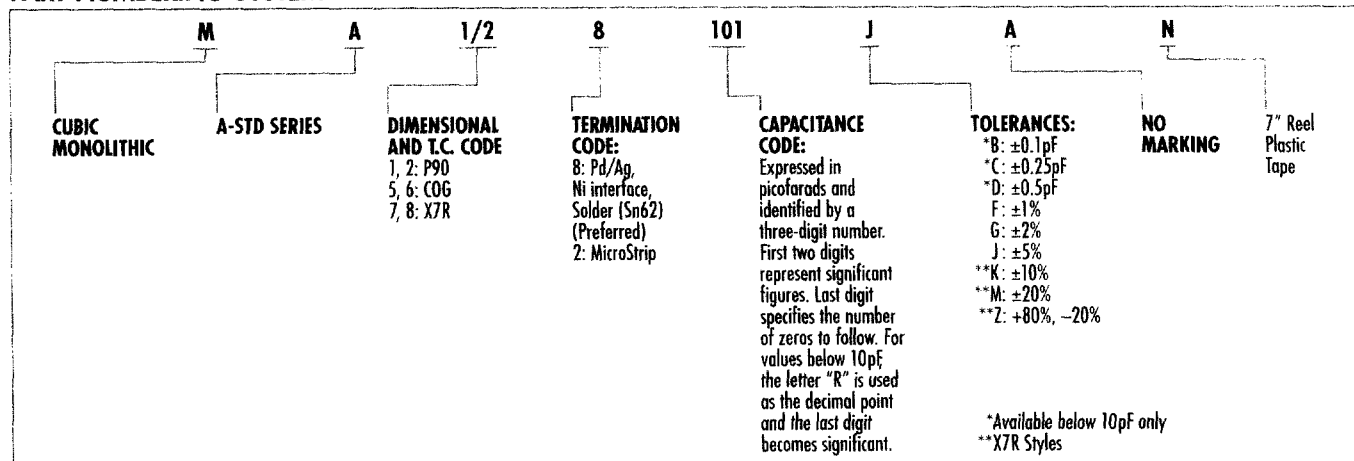
Please contact the factory for availability of special configurations or high-reliability screening.

## CONFIGURATIONS AND DIMENSIONS—CASE SIZE 1 & 2

Type			Configuration	Dimensions: mm			Band	Termination
P90 ± 20 ppm/°C	COG ± 30 ppm/°C	X7R		Length	W ± .25	T max.	Y +.25 -.1	
MA18	MA58	MA78		1.8 max.	1.4	1.4 <sup>†</sup>	.25	Palladium Silver, Ni Interface & Solder (Sn 62)
MA28	MA68	MA88		.130 max.	2.8	2.5 <sup>†</sup>	.4	Palladium Silver, Ni Interface & Solder (Sn 62)

<sup>†</sup>1.65 max. Thickness, X7R    <sup>†</sup>2.92 max. Thickness, X7R T.C.

## PART NUMBERING SYSTEM



For more detailed information regarding this product line, see Catalog No. C-22-C. To receive additional information on Murata Products call 1-800-831-9172.