

MULTILAYER CERAMIC CHIP CAPACITORS

Meritek

Selection of Ceramic Chip Capacitor

MERITEK Multilayer Ceramic Chip Capacitors offer the most complete range of characteristics and configurations available in the industry. We recommend that your selection of capacitors be based on consideration of the following items.

1. DIELECTRIC TYPE

The choice of dielectric is determined by the required capacitance-temperature stability. We offer *COG (1B)*, *X7R (2R1)*, *Y5V*, and *Z5U (2E6)*

2. CAPACITANCE AND TOLERANCE

Capacitance and its tolerance are determined by circuit requirements and cost considerations.

3. RATED VOLTAGE

Rated voltage is determined by circuit requirements.

4. SIZE

Size is determined by the circuit design and cost considerations.

5. PACKAGING

Specify the packaging format of capacitors as bulk or tape & reeled.

6. NON-STANDARD REQUIREMENTS

Specify any non-standard requirements which are not stated in catalogue.

Dielectric	COG (1B)	X7R (2R1)	Z5U (2 E6) & Y5V (2 F4)
Features	<ul style="list-style-type: none">◆ Ultra- stable◆ Low dissipation factor◆ Tight tolerance available◆ Good frequency performance◆ No aging of capacitance	<ul style="list-style-type: none">◆ Semi-stable High K◆ Highly volumetric efficiency◆ Highly reliable in high temperature application◆ High insulation resistance	<ul style="list-style-type: none">◆ Highest volumetric efficiency◆ Non-polar construction◆ General purpose, High K
Applications	<ul style="list-style-type: none">◆ LC and RC tuned circuit◆ Filtering◆ Timing	<ul style="list-style-type: none">◆ Blocking◆ Coupling◆ Timing◆ Bypassing◆ Frequency discriminating◆ Filtering	<ul style="list-style-type: none">◆ Bypassing◆ De-coupling◆ Filtering

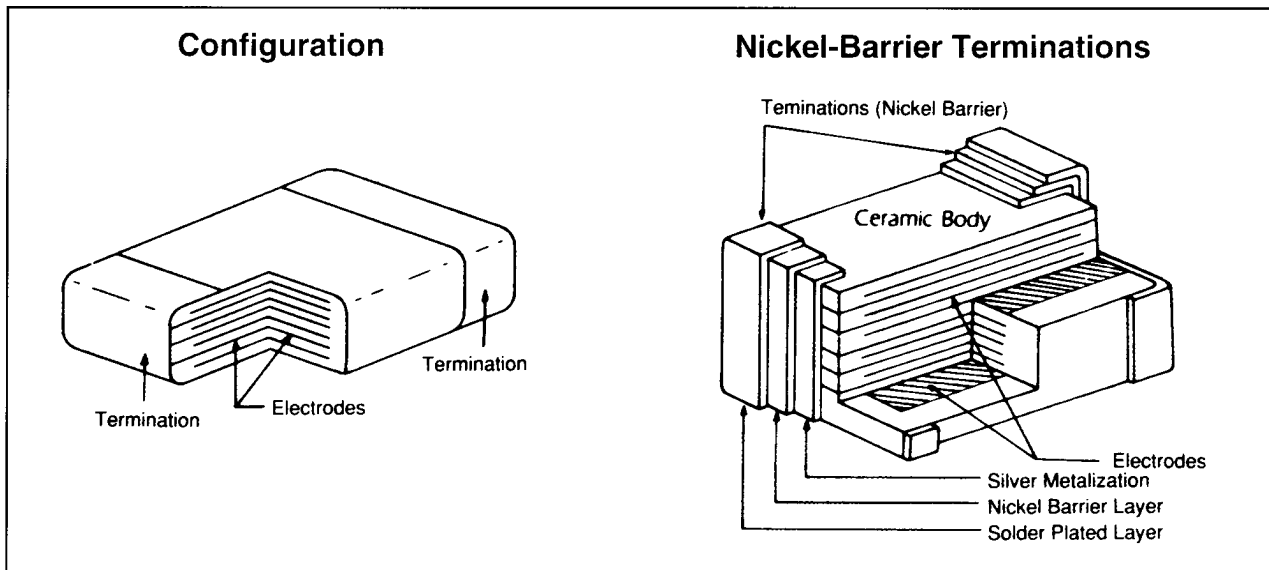
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MA Series

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MERITEK Multilayer Ceramic Chip Capacitors are supplied in bulk or tape & reel packaging, They are ideal for thickfilm hybrid circuits and automatic surface mounting on any printed circuit board.

The nickel-barrier terminations consist of a nickel barrier layer over the silver metallization, finished with an electroplated solder layer to ensure that the terminations will have good solderability. The nickel barrier layer in terminations prevent the dissolution of termination when the parts are exposed to extended immersion in molten solder at elevated solder temperatures.



RESISTANCE TO SOLDERING

Termination Material	Code	Test Conditions
Nickel-barrier, Solder plated	N	260°C, 60 Sn/40 Pb solder, 60 secs.

TOLERANCES AVAILABLE

Dielectric		Available Tolerance	Capacitance
EIA	IEC		
COG	1BCG	±0.25 pF ±0.5 pF ±5%, ±10%, ±20%	≤ 5 pF 5 pF < CAP. < 10 pF ≥ 10 pF
X7R	2R1	±5%, ±10%, ±20%	All values
Z5U	2E6	±20%, +80% -20%	All values
Y5V	2F4	±20%, +80% -20%	All values

• Other tolerances are available upon request.