

# PRODUCT PROFILE & CROSS-REFERENCE



PDF Specification:

[www.niccomp.com/products/catalog/nmc-ap.pdf](http://www.niccomp.com/products/catalog/nmc-ap.pdf)

## Product Category:

Passives; Capacitors; Ceramic Chip; Soft Terminal; Auto-Grade

## NMC-AP series

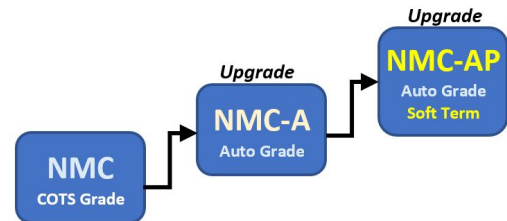
Soft Terminal Auto-Grade MLCCs



NIC Components Corp. is pleased to announce the release of the NMC-AP product series of automotive-grade (AEC-Q200 qualified) multilayer ceramic chip capacitors (MLCCs) featuring soft polymer terminal (crack resistant) construction. The NMC-AP series provides a safer upgrade to standard solid terminal construction MLCCs. Intended for use in applications requiring high reliability and resistance from cracking due to PCB flexure. NMC-AP series is available in 0603, 0805, 1206, and 1210 case sizes and voltage ratings from 6.3V to 250VDC.

NMC-AP series meets AEC-Q200 stress tests, including PC Board Flex Deflection of **5mm** per AEC-Q200-21 test conditions.

The capacitance value range of the NMC-AP series covers 1000pF to 4.7uF in  $\pm 5\%$  (J),  $\pm 10\%$  (K), and  $\pm 20\%$  (M) tolerances in X7R temperature coefficient, allowing  $\pm 15\%$  capacitance value change over an operating temperature range of  $-55^{\circ}\text{C}$  to  $+125^{\circ}\text{C}$ . RoHS & REACH compliant and compatible with Pb-free reflow soldering processes. Evaluation samples are available upon request. Please contact NIC today to review your requirements.

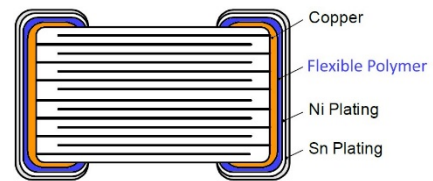


### Features:

- Crack resistant construction
- Meets AEC-Q200
- Wide Temperature Range:
  - $-55^{\circ}\text{C}$  to  $+125^{\circ}\text{C}$
- Low ESR and ESL MLCC

### Circuit Applications:

- Coupling
- Bypass
- Tuning
- Filtering
- Impedance matching



**Flexible Polymer Layer**  
**Crack Resistance Construction**

	NIC	AVX	KEMET	Murata	Taiyo Yuden	TDK
	<b>NMC-AP</b>	__AZ__	C__X__AUTO	GCI__	__MJ__	CNA__



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