

# MH Ceramic Capacitor

## Lead Free Ceramic Capacitor in Molded SM Leadframe



The MH components use a X7R high capacitance value ceramic capacitor in a surface mount precision made moulded case.

The MH capacitor combine the ceramic attributes of very low ESR, non-polar construction, excellent high frequency behaviour and voltage stress capabilities and wide temperature range; with the enhanced mechanical protection of a moulded case. The moulded case is UL94 V-0 flame retardant and the MH is RoHs and also AEC-Q200 compliant.

The MH range provides a lead frame solution to customers who have previously been unable to use large case ceramic capacitors because of mechanical stressing concerns.

For those applications where a tin termination is not acceptable, a Tin/Lead termination is available.

### FEATURES

- Capacitance: 2.2u F – 22 μF
- MHs are AEC-Q200 compliant
- Voltage Range DC: 25V – 100V
- Enhanced thermo mechanical stress resistance.

### HOW TO ORDER

<b>MH</b>	<b>V</b>	<b>1</b>	<b>1</b>	<b>C</b>	<b>475</b>	<b>M</b>	<b>A</b>	<b>T</b>	<b>2</b>	<b>A</b>
<b>MH Series</b>	<b>Case Size</b> see table below	<b>MLCC Count</b>	<b>Voltage</b> 3 = 25V 5 = 50V 1 = 100V	<b>Dielectric</b> C = X7R	<b>Capacitance Code (In pF)</b> 2 Sig. Digits + Number of Zeros	<b>Capacitance Tolerance</b> K = ±10% M = ±20%	<b>Failure Rate</b> A = Not Applicable	<b>Terminations</b> T = Tin Plated B = Tin/Lead Plated	<b>Packaging</b> 2 = 7" Reel 4 = 13" Reel 6 = Waffle Pack	<b>Special Code</b> A = Std. Product

### MH X7R RANGE

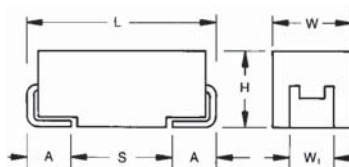
	Cap μF	25V	50V	100V
225	2.2			
335	3.3			
475	4.7			
685	6.8			
106	10			
156	15			
226	22			

### PACKAGING QUANTITY

7" Reels	400
13" Reels	1500
Waffle Pack	108

### “V” CASE DIMENSIONS: millimeters (inches)

<b>L</b>	7.3±0.2 0 (0.287 ±0.008)
<b>W</b>	6.1 + 0.20 - 0.10 (0.24 + 0.008 - 0.004)
<b>H</b>	3.45±0.30 (0.136±0.012)
<b>W<sub>1</sub></b>	3.1±0.20 (0.120±0.008)
<b>A</b>	1.4 + 0.30 - 0.20 (0.055 + 0.012 - 0.008)
<b>S Min</b>	4.40 (0.173)



LEAD-FREE  
LEAD-FREE COMPATIBLE  
COMPONENT



RoHS  
COMPLIANT

TS 16949, ISO 14001  
Certified Manufacture



Performance of SMPS capacitors can be simulated by downloading SpiCalci software program - <http://www.avx.com/SpiApps/default.asp#spicalci>



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