

CSMC8 SERIES

- SMD Ceramic 2.0mm x 1.6mm (4Pad)
- Ultra Miniature Package, 0.5mm height
- Tight Tolerance and Stability
- RoHS Compliant



ASCEND

FREQUENCY DEVICES

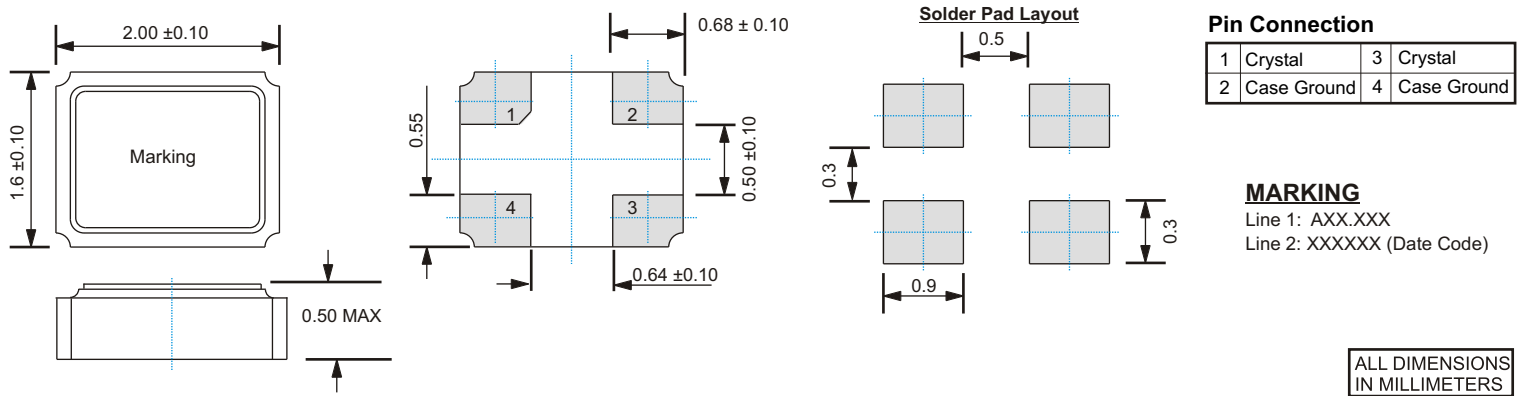
Electrical Specifications

Frequency Range:	20.000MHz to 50.000MHz
Frequency Tolerance/Stability:	Select from options below
Operating Temperature Range:	Select from options below
Storage Temperature Range:	-40°C to +90°C
Aging:	±3.0ppm/year
Shunt Capacitance:	5pF Maximum
Load Capacitance:	Select from options below
Equivalent Series Resistance:	See ESR Table Below
Mode of Operation:	Fundamental
Drive Level:	100µW Maximum
Insulation Resistance:	500 Megaohms Minimum at DC 100V

Equivalent Series Resistance Table

Frequency Range	ESR (Ohms)	Mode / Cut	Frequency Range	ESR (Ohms)	Mode / Cut
20.000MHz to 25.999MHz	120 Maximum	Fundamental / AT	30.000MHz to 35.999MHz	80 Maximum	Fundamental / AT
26.001MHz to 29.999MHz	100 Maximum	Fundamental / AT	36.000MHz to 50.000MHz	50 Maximum	Fundamental / AT

Mechanical Dimensions



Part Numbering Guide

CSMC8 A A 1 20 1 - 33.000M - TR

<p>Series Ceramic SMD Crystal (2.0mm x 1.6mm, 4 Pad)</p> <p>Frequency Tolerance A = ±5ppm B = ±10ppm C = ±15ppm D = ±20ppm E = ±25ppm F = ±30ppm G = ±50ppm H = ±100ppm</p> <p>Frequency Stability A = ±5ppm B = ±10ppm C = ±15ppm D = ±20ppm E = ±25ppm F = ±30ppm G = ±50ppm H = ±100ppm</p> <p>Temperature Range 1 = -10°C to +60°C 2 = -20°C to +70°C 3 = -40°C to +85°C</p>	<p>Packaging Blank = Bulk TR = Tape and Reel</p> <p>Frequency</p> <p>Mode of Operation 1 = AT Fundamental</p> <p>Load Capacitance SR = Series 08 = 8pF 09 = 9pF 10 = 10pF 12 = 12pF 16 = 16pF 18 = 18pF 20 = 20pF 32 = 32pF</p>	<p>Not all temperature/stability options are available. Please consult with factory for current capabilities</p>
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