SM39S Crystal

- 4 Lead Surface Mount Plastic Crystal
- Solder Pad Compatible with our SM55, SM45, SM40 and other SM Crystals from Epson, Meiden & Citizen

Part Numbering Guide



3.500 MHz - 70.000 MHz

Standard Specifications

Shunt Capacitance

Calibration Frequency Tolerance at 25°C Operating Temperature Range (OTR) Frequency Stability (FS) over OTR Drive Level Aging at 25°C

± 50 PPM is standard, tighter tolerances available

0 to +70°C is standard, but can be extended to -40 to +85°C

 \pm 50 PPM is standard, tighter tolerances available 50 mW is standard, customer may specify

± 5 PPM per year 7 pF maximum

Part Numbering Guide Portions of the part number that appear after the frequency may not be marked on part (C of C provided)		B	
		Oscillation Mode	Fre
SM39S B E - xx - 70.0M - XXX (Internal Code or blank)		Fundamental AT Cut	3.50 4.00
Model —	Frequency in MHz		6.00 10.00
Cal Tol / Freq Stability Blank = 50/50 A = 30/50 B = 30/30 C = 15/30 D = 10/20 (consult factory)	Load Capacitance Parallel Resonance in pF (≥ 10 pF) SR = Series Resonance	3rd Overtone AT Cut	27.00 36.00
	Temperature Range Blank: 0 to +70°C E: - 40 to +85°C	Co	onsult fa

ESR Values			
Oscillation Mode	Frequency Range (MHz)	Maximum ESR (Ohms)	
Fundamental	3.500 - 3.999	200	
AT Cut	4.000 - 5.999	150	
	6.000 - 9.999	100	
	10.000 - 34.000	50	
3rd Overtone	27.000 - 35.999	100	
AT Cut	36.000 - 70.000	80	

Consult factory for lower ESR

Consult factory for available frequencies and specs. Not all options available for all frequencies. A special part number may be assigned.

H: - 20 to +70°C

Mechanical: inches (mm)

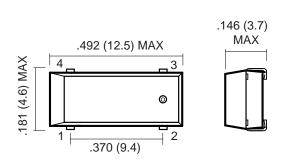
not to scale

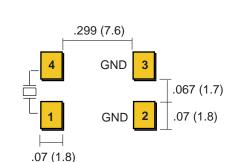
Solder Pads

Due to part size and factory abilities, part marking may vary from lot to lot and may contain our part number or an internal code.

Packaging 24mm tape

12mm pitch





Sept 2003