

# SSI Series – 5 x 7 Spread Spectrum Clock Oscillator



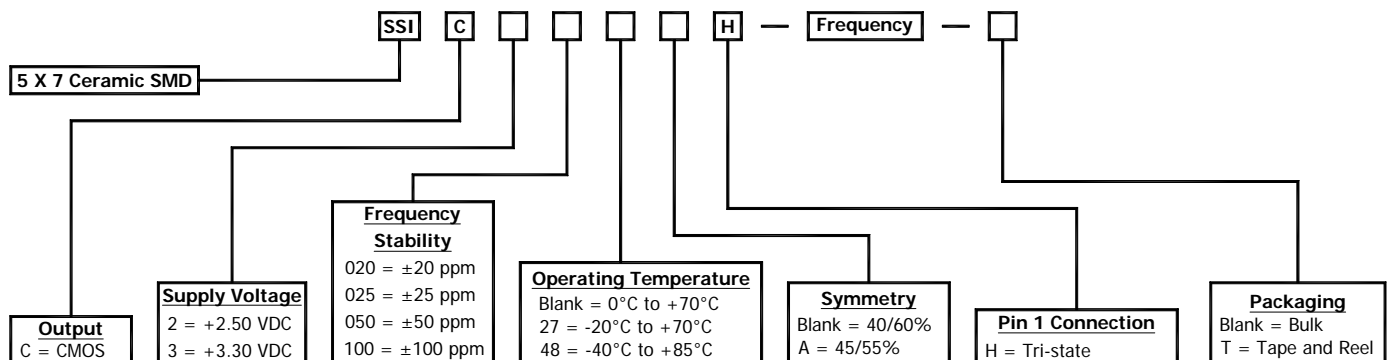
- Wide Frequency Range
- Direct Drop-in Replacement
- EMI Reduction Oscillator
- RoHS Compliant
- Tape and Reel Available



## ELECTRICAL SPECIFICATION:

Frequency Range	13.000MHZ to 160.000MHZ		
Spread Spectrum Modulation	Center Spread	±0.125% to ±2.00%	
	Down Spread	-0.250% to -4.00%	
Temperature Stability (Inclusive of +25°C ±3° C and Operating Temperature)	(See Part Number Guide for Options)		
Operating Temperature Range	(See Part Number Guide for Options)		
Storage Temperature Range	-55°C to +125°C		
Supply Voltage (Vdd)	+2.50 VDC ±5%		+3.30 VDC ±5%
Supply Current	13.000MHZ to 49.999MHZ	20 mA max	20 mA max
	50.000MHZ to 79.999MHZ		25 mA max
	80.000MHZ to 99.999MHZ	25 mA max	30 mA max
	100.000MHZ to 160.000MHZ	30 mA max	40 mA max
Output Type	CMOS		
Symmetry (50% of waveform)	(See Part Number Guide for Options)		
Rise/Fall Time (10% to 90% of Supply Voltage)	13.000MHZ to 49.999MHZ	5.0 nSec	10.0 nSec
	50.000MHZ to 79.999MHZ		8.0 nSec
	80.000MHZ to 99.999MHZ	4.0 nSec	5.0 nSec
	100.000MHZ to 160.000MHZ	3.0 nSec	4.0 nSec
Load	15pF 50pF max		
Aging	±3.0 ppm first year, ±1.0 ppm each year after		
Tri-state Operation	Voh = 70% of Vdd min or No Connection to Enable Output Vol = 30% max or grounded to Disable Output (High Impedance)		

## PART NUMBER GUIDE:

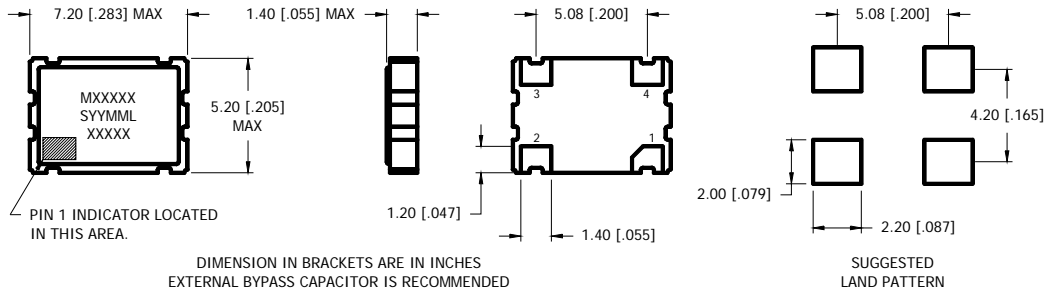


Please Consult with MMD Sales Department for any other Parameters or Options

**MMD Components**, 30400 Esperanza, Rancho Santa Margarita, CA, 92688  
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In the event of conflict, the requirements of this specification shall govern.	Revision:	SSIC020509 A
Revisions only with customer approval	Date:	02/06/09

## MECHANICAL DIMENSIONS:



PIN CONNECTIONS	
PIN 1	TRI-STATE
PIN 7	CASE GROUND
PIN 8	OUTPUT
PIN 14	SUPPLY VOLTAGE

## ENVIRONMENTAL/MECHANICAL SPECIFICATION:

Shock	MIL-STD-883, Meth 2002, Cond B
Solderability	MIL-STD-883, Meth 2003
Vibration	MIL-STD-883, Meth 2007, Cond A
Gross Leak Test	MIL-STD-883, Meth 1014, Cond C
Fine Leak Test	MIL-STD-883, Meth 1014, Cond A
Reflow Solder	+260°C for 10 sec max

## MARKING DETAIL:

Line 1 = MXXXXX

M = MMD COMPONENTS

XXXXX = Frequency in MHZ

Line 2 = SYMMML

S = Internal Code

YMMM = 4 Digit Date Code (Year / Month)

L = Denotes RoHS Compliant

Line 3 = XXXXX

Internal use only

May vary with lots

Pin 1 Indicator

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