

# SSI Series – 5 x 7 Spread Spectrum Clock Oscillator



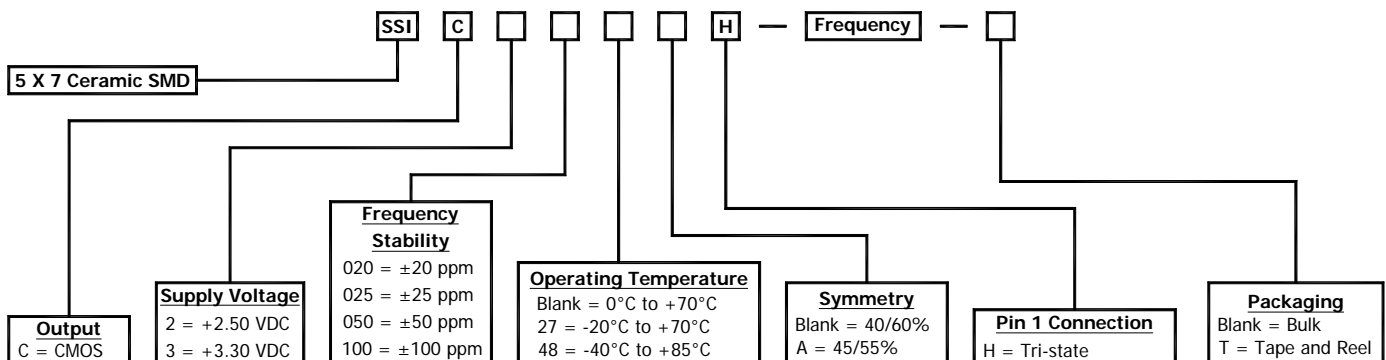
- Wide Frequency Range
- Direct Drop-in Replacement
- EMI Reduction Oscillator
- RoHS Compliant
- Tape and Reel Available



## 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<br>Vol = 30% max or grounded to Disable Output (High Impedance) |                   |               |

## PART NUMBER GUIDE:

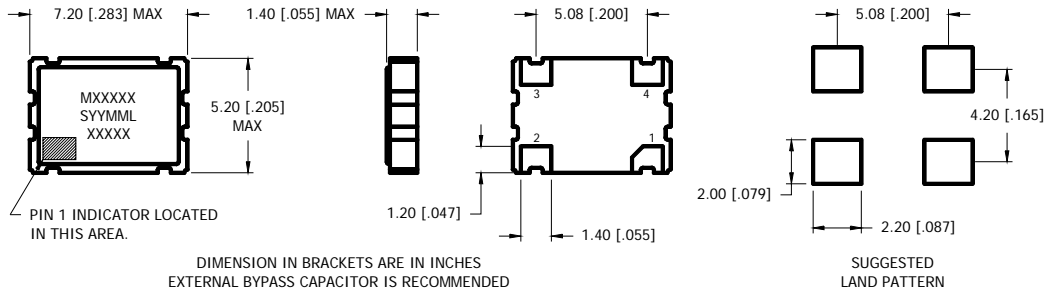


Please Consult with MMD Sales Department for any other Parameters or Options

**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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| Revisions only with customer approval  | 2 of 2    | Release: AWB Date: 02/06/09 |