



# GENERAL OSCILLATOR SPECIFICATION - SSOC7



<b>Frequency Range</b>	: 5.000 000 to 160.000 000 MHz.
<b>Frequency Stability</b>	
All Causes ( Maximum )	: ± 25.0 ppm, ± 50.0 ppm, ± 100.0 ppm.
Ageing ( Maximum for first year @ 25 ± 3 °C )	: ± 5.0 ppm.
<b>Temperature Range</b>	
Operating	: 0 to + 70 °C ( - 40 to + 85 °C option ).
Storage	: - 55 to + 125 °C.
<b>Supply Voltage</b> ( ± 5.0 % )	: + 3.3 V.
<b>Supply Current</b> ( Maximum )	
1.000 000 to 14.999 999 MHz	: 7.0 mA.
15.000 000 to 49.999 999 MHz	: 8.0 mA.
50.000 000 to 99.999 999 MHz	: 17.0 mA.
100.000 000 to 160.000 000 MHz	: 18.0 mA.
<b>Output Characteristics</b>	
Waveform	: Squarewave.
Output	: CMOS.
Load ( Maximum )	: 15 pF.
Mark Space Ratio ( @ 1/2 V <sub>CC</sub> )	: 45:55.
Rise / Fall Times ( Maximum )	
Rise Time ( 10 % to 90 % V <sub>CC</sub> )	: 4.0 nS.
Fall Time ( 90 % to 10 % V <sub>CC</sub> )	: 4.0 nS.
Start up Time ( Maximum )	: 5.0 mS. ( ± 2.0 mS Typical ).
Logic Levels	
High ( Minimum )	: 0.9 V <sub>CC</sub> .
Low ( Maximum )	: 0.1 V <sub>CC</sub> .
Pin 1 ( Tri-State ) ( option )	
High or Open	: Enable.
Low	: Disable.
Jitter ( cycle to cycle ) ( Maximum )	: ± 300.0 pS. ( ± 250.0 pS Typical ).
<b>Package Style</b>	: 7.00 x 5.00 x 1.80 mm.
<b>Marking</b>	
Line 1	: <b>PDI</b>
Line 2	: Frequency
Line 3	: Spec. code

**Notes**  
 All product supplied in anti-static packaging.  
 All product is supplied RoHS compliant.  
 Product can be supplied on Tape and Reel.

Revision 001 Created on 02/07/2007 by MS

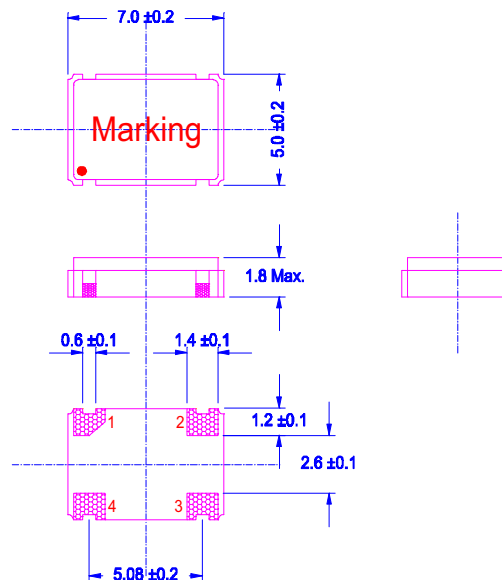
**PRECISION  
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**Pin Connections**

- 1 Tri-State or Not Connected
- 2 Ground
- 3 Output
- 4 Supply Voltage





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<b>Spread</b> ( $\pm 2.0$ % of total % Maximum )	:	Total %		Down Spread ( D )		Centre Spread ( C )
	:	1.0 %		- 1.0 % ( D1 )		$\pm 0.5$ % ( C0.5 )
	:	3.0 %		- 3.0 % ( D3 )		$\pm 1.5$ % ( C1.5 )
<b>EMI Reduction</b> ( Applied to entire spectrum )						
100.0 MHz @ C $\pm 0.25$ ( Minimum )	:			- 7.0 dBc wrt dB level at no modulation.		
100.0 MHz @ C $\pm 0.50$ ( Minimum )	:			- 9.0 dBc wrt dB level at no modulation.		
100.0 MHz @ C $\pm 1.50$ ( Minimum )	:			-15.0 dBc wrt dB level at no modulation.		
<b>Modulation Carrier Frequency</b> ( Dither rate )	:	6.9 kHz Minimum, 55.5 kHz Maximum. ( Frequency dependent )				

**PRECISION  
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