RoHS Compliant
Pb - Lead Free

Ltr	Revisions	Date	Appr

Electrical Specifications:

Frequency Range		**1.000 to 155.520**					**MHz**
Temperature Stability		**±100**					**PPM Max**
		±50					
		±30					
		±25					
Aging per Year		**±5**					
Operating Temperature Range	**Standard**	**-10 to +70**					**ºC**
	Extended	**-40 to +85**					
Storage Temperature Range		**-55 to +125**					
Supply Voltage		**1.8 ± 5%**	**2.5 ± 5%**	**2.85 ± 5%**	**3.3 ± 10%**	**5.0 ± 10%**	**Vdd**
Input Current	**1.000 to 32.000 MHz**	**7**	**10**	**15**	**15**	**25**	**mA Max**
	32.100 to 50.000 MHz	**15**	**12**	**20**	**20**	**40**	
	50.100 to 70.000 MHz	**15**	**12**	**25**	**25**	**60**	
	70.100 to 80.000 MHz	**-**	**60**	**30**	**40**	**60**	
	80.100 to 125.000 MHz	**-**	**60**	**-**	**40**	**80**	
	125.100 to 155.520 MHz	**-**	**-**	**-**	**40**	**90**	
Output Voltage	**Logic High (Voh)**	**90% (80% at 1.8)**					**Vdd Min**
	Logic Low (Vol)	**10% (20% at 1.8)**					**Vdd Max**
Output Symmetry	**Standard**	**40 to 60**					**%**
	Tight	**45 to 55**					
Output Current	**Lol/Loh**	**2**	**4**	**2**	**2**	**2**	**mA Min**
Output Load		**15**					**pF Max HCMOS**
		30					
		50					
Rise and Fall Time	**1.000 to 32.000 MHz**	**5**	**5**	**6**	**6**	**10**	**ns Max**
	32.100 to 50.000 MHz	**3.5**	**5**	**6**	**6**	**5**	
	50.100 to 70.000 MHz	**3.5**	**5**	**4**	**6**	**5**	
	70.100 to 80.000 MHz	**-**	**5**	**4**	**6**	**5**	
	80.100 to 125.000 MHz	**-**	**5**	**4**	**4**	**4**	
	125.100 to 155.520 MHz	**-**	**-**	**-**	**3**	**4**	
Standby Current		**10**					**uA Max**
Enable-Disable Function		**Tri-State**					**-**
Output Disable Time		**300**	**150**				**ns Max**
Output Enable Time		**10**	**10**				**ms Max**
Start Up Time		**10**					**ms Max**

Temperature stability is Inclusive of all conditions:
Calibration Tolerance at +25°C, frequency stability over the operating temperature range, supply voltage, supply voltage change, output load changes, shock, vilbration, and 1st year aging at +25°C.

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All dimensions are millimeters.

CAD:	TCR
Review:	EG
Appr:	MK
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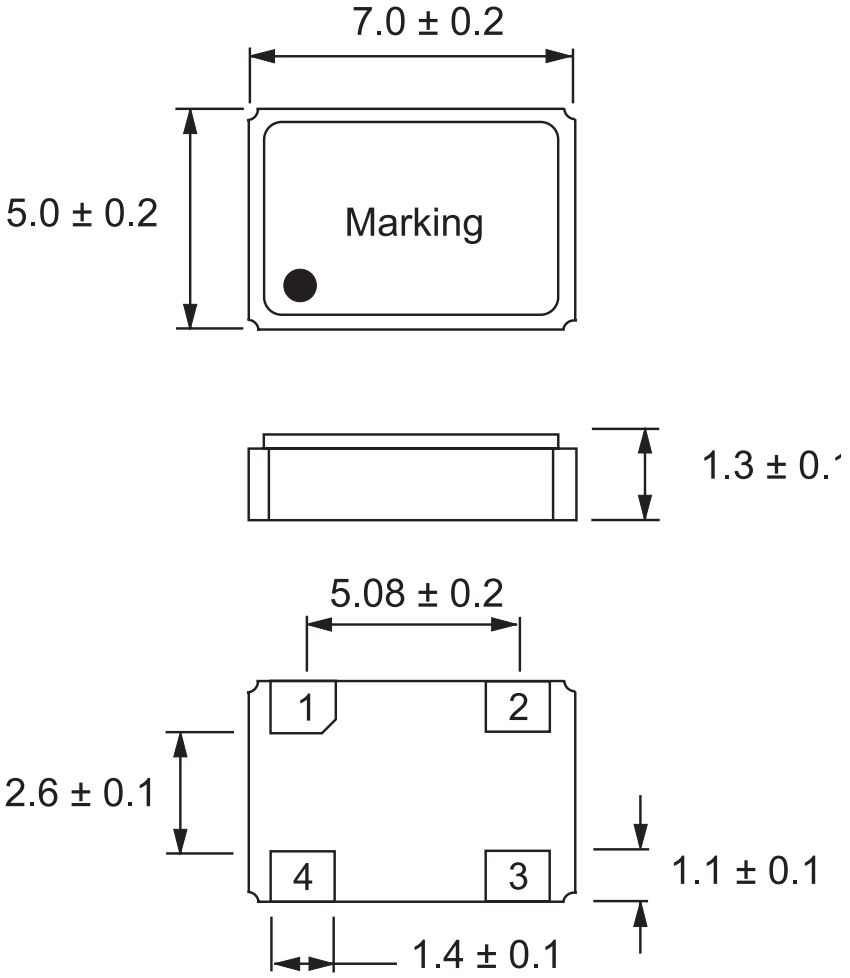
Specification Title:

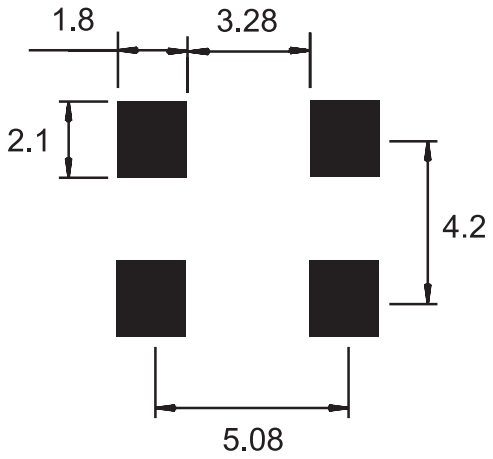
Clock Oscillator
Low Profile
5.0 x 7.0 millimeter Surface Mount
General Product Specification

Part Number: **S7 Series**

Mechanical Outline:

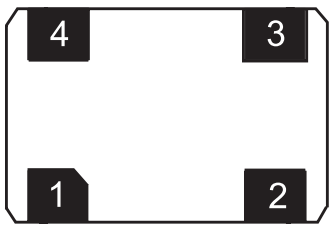


PCB Solder Pad Layout:



Package is Seam Sealed Ceramic-Metal.
Dimensions are millimeters.

Pad Connection and Enable/Disable Function:

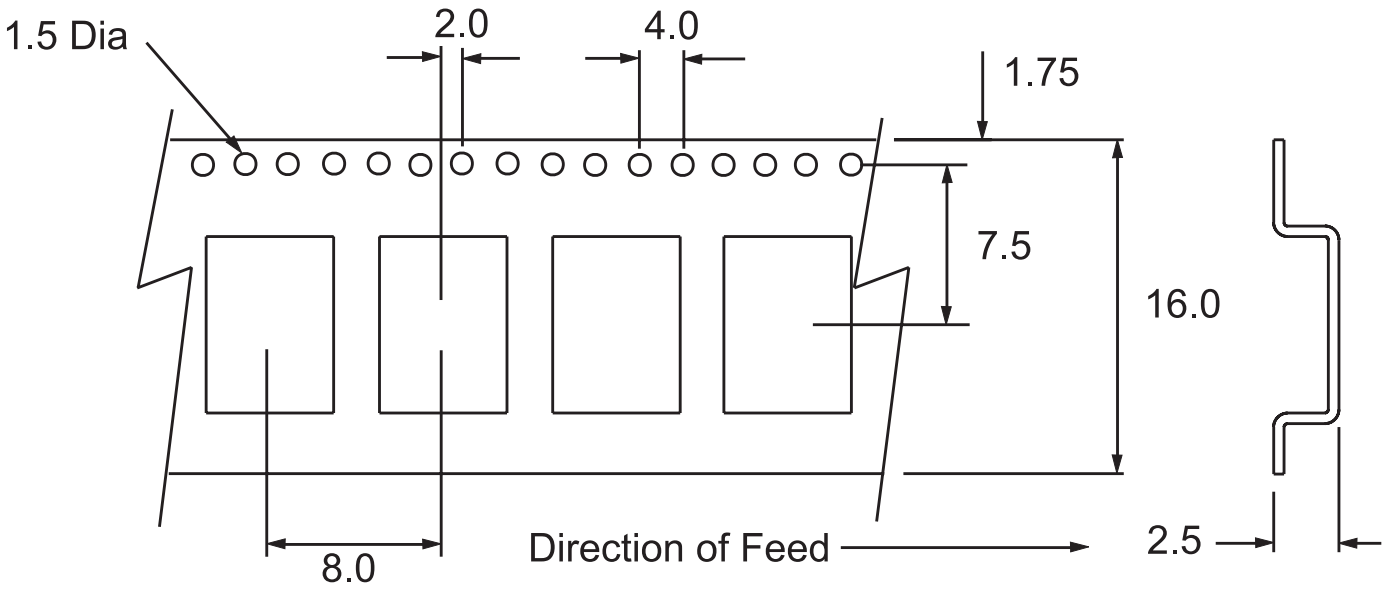


Top View

1- E/D
2- Gnd
3- Output
4- Vin

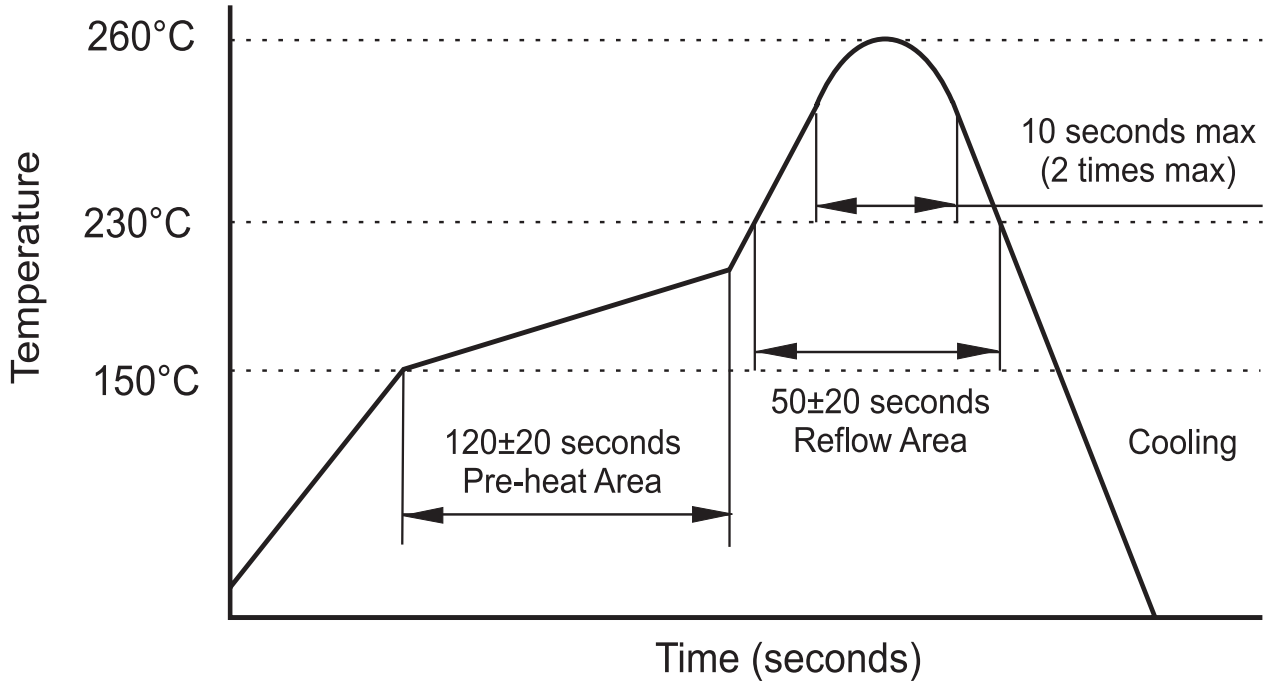
Pin1	Pin 3
High	Oscillation
Open	Oscillation
Low	High Impedance

Carrier Tape Dimensions:



Dimensions are millimeters.

Solder Reflow Characteristics:



How to build a Part Number:

Series	S	Parameter
Package	7	5.0 x 7.0 mm
Supply Voltage	50	+5.0 Vdd ± 10%
	33	+3.3 Vdd ± 10%
	28	+2.8 Vdd ± 5%
	25	+2.5 Vdd ± 5%
	18	+1.8 Vdd ± 5%
Temperature Stability	10	±100 PPM
	05	±50 PPM
	03	±30 PPM
	025	±25 PPM
Duty Cycle	See Notes	40/60 %
	T	45/55 %
	-	
Frequency	1.000 to 155.520	MHz
	-	
Temperature Range	See Notes	-10 to +70 ºC
	X	-40 to +85 ºC
	-	
Output Load	15	pF Max HCMOS
	30	
	50	
	-	
Packaging	R	Tape and Reel

Part Number Example:

S73305T-50.000-X-15-R
S7: 5.0 x 7.0 mm SMD Package
33: +3.3 Vdd Supply Voltage
05: ±50 PPM Temperature Stability
T: 45/55 Tight Symmetry
50.000 MHz Nominal Frequency
X: -40 to + 85° C Extended Temperature Range
15: 15 pF Max HCMOS Output Load
R: Tape and Reel Packaging

Notes:

1- Standard Duty Cycle and Temperature Range do not need to be included in Part Number description.
2- Product is shipped in Tape and Reel configuration. Each reel contains 1000 pieces.
3- Quantities less than 1000 are shipped bulk in ESD pouches.
4- Specification subject to change without notice.