

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					°C
	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, vibration, and 1st year aging at +25°C.



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All dimensions are millimeters.

CAD: TCR

Review: EG

Appr: MK

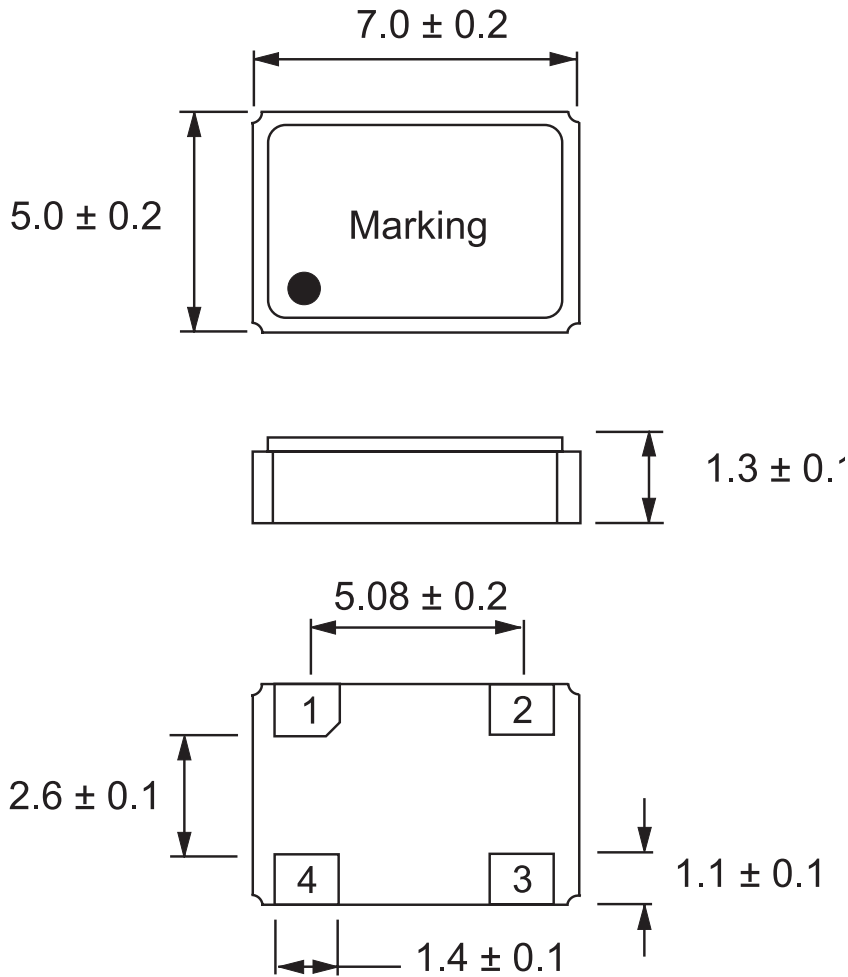
Page: 1/4 Date: April 30, 2006

Specification Title:

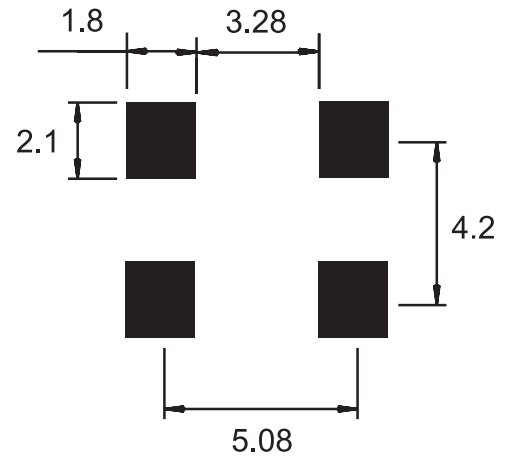
**Clock Oscillator
Low Profile
5.0 x 7.0 millimeter Surface Mount
General Product Specification**

Part Number: **S7 Series**

Mechanical Outline:

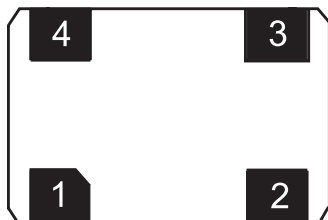


PCB Solder Pad Layout:



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

Pad Connection and Enable/Disable Function:

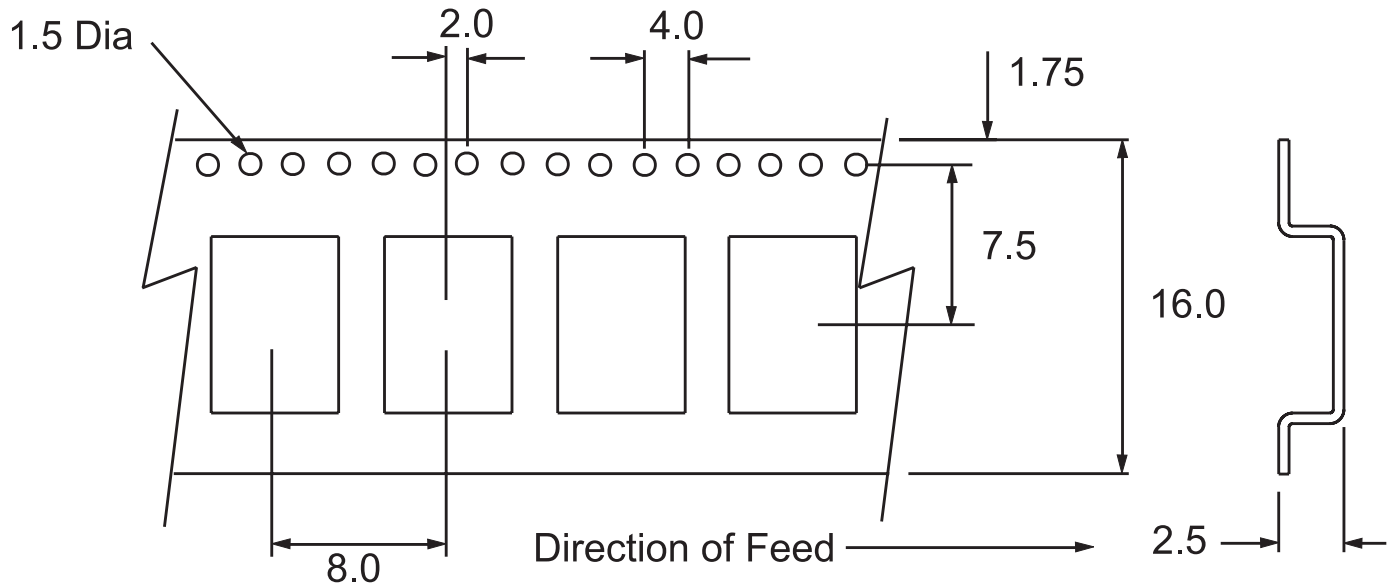


Top View

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

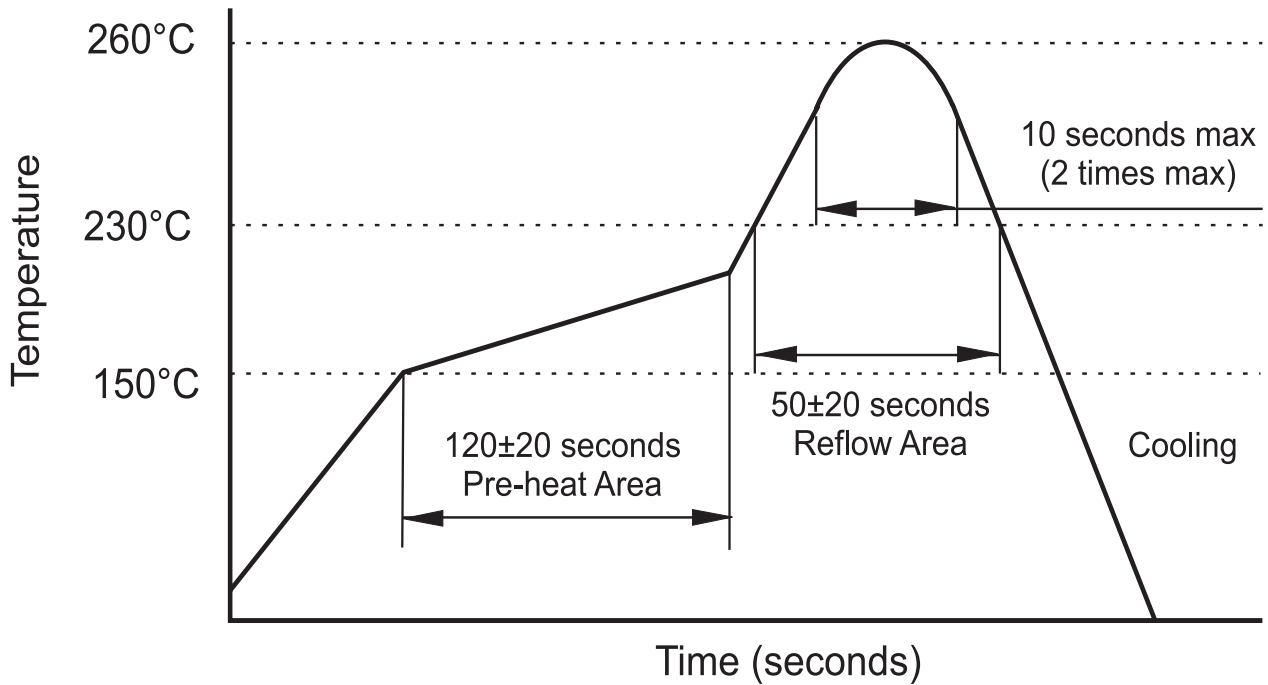
Pin1	Pin 3
High	Oscillation
Open	Oscillation
Low	High Impedance

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 °C
	X	-40 to +85 °C
	-	
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.