RoHS Compliant Pb - Lead Free

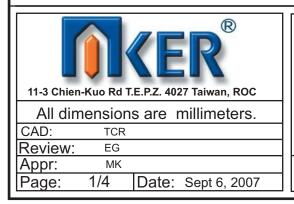
Ltr	Revisions	Date	Appr

Electrical Specifications:

Frequency Range		77.000 to 625.000		MHz
		±100		РРМ Мах
Frequency Stability over Temper	ature	±50		
		±25		
Aging per Year		±3		
Operating Temperature Range	Standard	0 to +70 -40 to +85		°C
Operating reinperature Range	Extended			
Storage Temperature Range		-55 to +125		
Supply Voltage		2.5 ± 5%	3.3 ± 5%	Vdd
	77.000 to 100.000 MHz	60	60	mA Max
Input Current	101.000 to 160.000 MHz	65	65	
	161.000 to 625.000 MHz	100	110	
Output Voltage	Logic High (Voh)	1.6	1.6	Vdd Min
Output Voltage	Logic Low (Vol)	0.9	0.9	Vdd Max
Differential Output Voltage (Vod)		247 to 454		mV
Offset Voltage (Vos)		1.125 to 1.375		V
Output Symmetry		45 to 55		%
Output Type		LVDS - Complimentary Output		-
Output Load (Between Q ansd Q	N)	100		Ω
	77.000 to 100.000 MHz	1	1	ns Max
Rise and Fall Time	101.000 to 160.000 MHz	0.5	0.5	
	161.000 to 625.000 MHz	1.5	1.5	
		Tri	-State	-
Enable-Disable Function		INH - Pin 1	Q Pin 4 - QN Pin 5	-
		High - Pin 1	Operating	-
		Low - Pin 1	High Impedance	-
Enable High Input Voltage		1.75	2.31	Vdd Min
Enable Low Input Voltage		0.75	0.99	Vdd Max
Phase Jitter (12 KHz to 20 MHz)	77.000 to 159.900 MHz	1 4		ps RMS
Filase Sitter (12 KHZ to 20 MHZ)	160.000 to 625.000 MHz			

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.

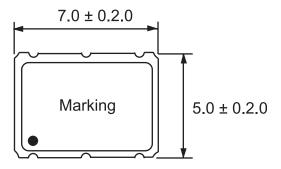


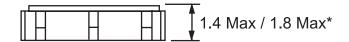
Specification Title:

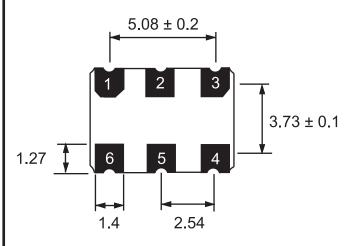
Clock Oscillator LVDS - Complimentary Output 5.0 x 7.0 mm Surface Mount - 6 Pad General Product Specification

Part Number: **S7A Series**

Mechanical Outline:

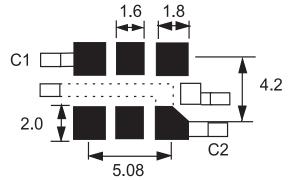






Package is Seam Sealed Ceramic-Metal. Dimensions are millimeters.

Solder Pattern:



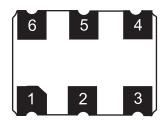
C1: 0.01 uF or 0.1 uF decoupling capacitor is recommended.

C2: By-Pass capacitor for noise suppression. Contact Aker for suggested values.

*Package Height:

- 1.4 mm Max for 77 to 159.900 MHz
- 1.8 mm Max for 160 to 625 MHz

Pad Connection:



Top View

Pin Connection

1- INH

2- NC

3-GND

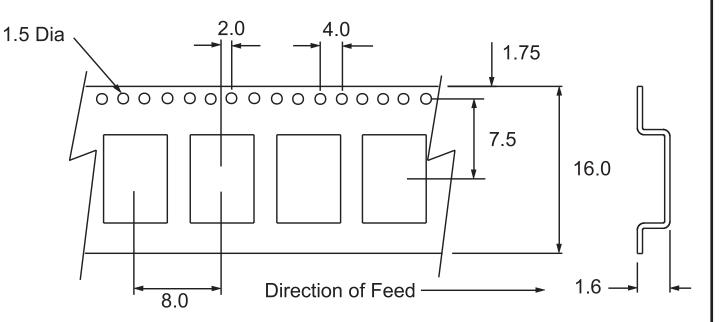
4- Output - Q

5- Comp. Output - QN

6-Vdd

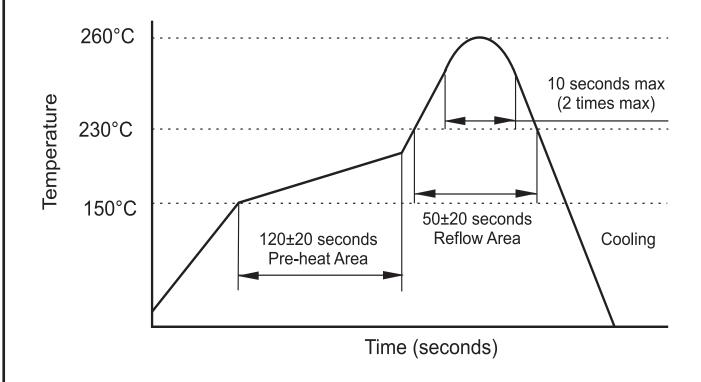
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Carrier Tape Dimensions:



Dimensions are millimeters.

Solder Reflow Characteristics:



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 Date: Sept 7, 2007
 P/N:
 S7A Series

How to build a Part Number:

Series	S	Parameter			
Package	7A	5.0 x 7.0 mm - 6 Pad			
Supply Voltage	25	+2.5 Vdd ± 5%			
Supply Voltage	33	+3.3 Vdd ± 5%			
	10	±100 PPM			
Temperature Stability	05	±50 PPM			
	025	±25 PPM			
	-				
Frequency 77.000 to 625.000		MHz			
	-				
Output Load	L	LVDS			
	-				
Tomporeture Bange	See Notes	0 to +70 °C			
Temperature Range	Х	-40 to +85 °C			
	-				
Packaging	R	Tape and Reel			

Part Number Example:

S7A3305-155.520-L-X-R

S7A: 5.0 x 7.0 mm **SMD Package - 6 Pad**

33: +3.3 Vdd Supply Voltage

05: ±50 PPM Temperature Stability 155.520 MHz Nominal Frequency

L: LVDS Output

X: -40 to + 85° C Extended Temperature Range

R: Tape and Reel Packaging

Notes:

- 1- Standard Temperature Range does 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.

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