RoHS Compliant Pb - Lead Free

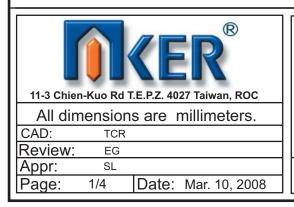
Ltr	Revisions	Date	Appr

Electrical Specifications:

Frequency Range	13.000 to 160.000		MHz		
	±100				
		±50			
Temperature Stability	±30		PPM Max		
		±25		PPIVI IVIAX	
	±20		7		
Aging per Year		±3		7	
Operating Temperature Range	Standard	-10 to +70		°C	
Operating reinperature Kange	Extended	-40 to +85			
Storage Temperature Range		-55 to +125			
Supply Voltage		2.5 ± 5%	3.3 ± 5%	Vdd	
	13.000 to 49.999 MHz	20	20	mA Max	
In most Command	50.000 to 79.999 MHz	20	25		
Input Current	80.000 to 99.999 MHz	25	30		
	100.000 to 160.000 MHz	30	40		
Output Voltage	Logic High (Voh)	90%		Vdd Min	
Output Voltage	Logic Low (Vol)	10%		Vdd Max	
Output Symmetry (Duty Cycle)	Standard	40 to 60		- %	
Output Symmetry (Duty Cycle)	Tight	45 to 55			
Output Load		15		pF Max	
Output Leve		CMOS		-	
	13.000 to 49.999 MHz	5	10	ns Max	
Rise and Fall Time	50.000 to 79.999 MHz	4	8		
Rise and Fall Tille	80.000 to 99.999 MHz	3	5		
	100.000 to 160.000 MHz	3	4		
Enable-Disable Function	Tri-State		-		
Spread Spectrum Modulation	Center Spread	±0.125 to ±2.0		- %	
opieda opectium modulation	Down Spread	-0.25 to -4.0			

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.

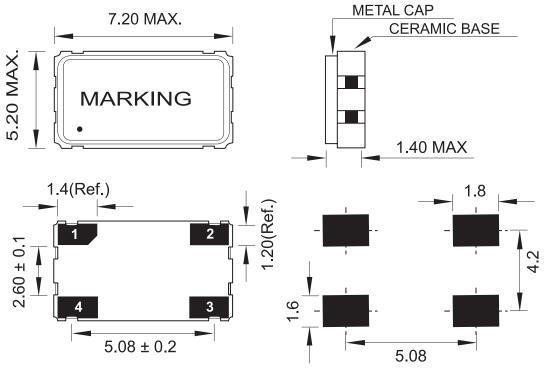


Specification Title:

Clock Oscillator Spread Spectrum - Low EMI 5.0 x 7.0 millimeter Surface Mount General Product Specification

Part Number: **S7 Low EMI Series**

Mechanical Outline:



#1 : E/D #2 : GND #4 : VDC #3 : OUTPUT

Bottom

Recommended Land Pattern

Pin1 Pin 3
INH Output
High or Open Operating
Low High Impedance

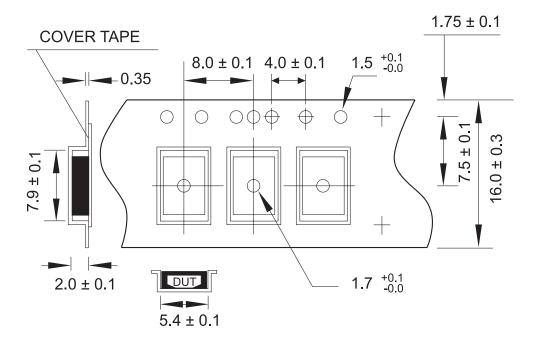
Package is Seam Sealed Ceramic-Metal. Dimensions are millimeters.

Spread Spectrum Modulation Specifications:

Spread Designation and Percent Modulation						
Down Spread		Center Spread				
LE-0.5	-0.5%	LE0.25	±0.25%			
LE-0.75	-0.75%	LE0.375	±0.375%			
LE-0.1.25	-1.25%	LE0.625	±0.625%			
LE-2.0	-2.0%	LE1.0	±1.0%			
LE-2.5	-2.5%	LE1.25	±1.25%			
LE-3.0	-3.0%	LE1.5	±1.5%			
LE-3.5	-3.5%	LE1.75	±1.75%			
LE-3.75	-3.75%	LE1.875	±1.875%			

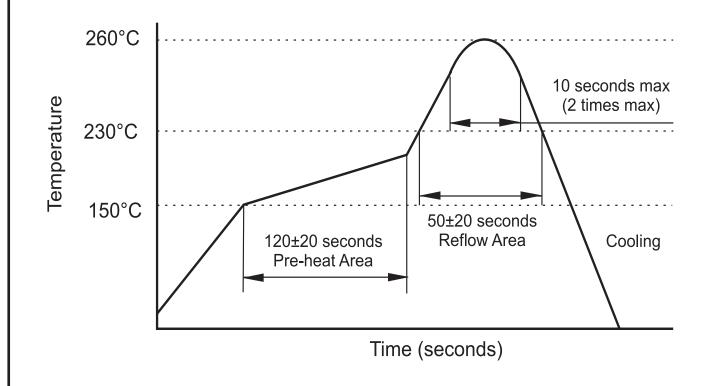
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 S7 Low EMI Series

Carrier Tape Dimensions:



Dimensions are millimeters.

Solder Reflow Characteristics:



Page: 3/4 Date: Mar. 10, 2008 P/N: S7 Low EMI Series

How to build a Part Number:

Series	S	Parameter			
Package	7	5.0 x 7.0 mm			
Supply Voltage	33	+3.3 Vdd ± 5%			
	25	+2.5 Vdd ± 5%			
	10	±100 PPM			
	05	±50 PPM			
Temperature Stability	03	±30 PPM			
	025	±25 PPM			
	02	±20 PPM			
-					
Duty Cylce	See Notes	40 / 60 %			
Buty Cylce	T	45 / 55 %			
-					
Frequency	13.000 to 160.000	MHz			
-					
Temperature Range	See Notes	-10 to +70 °C			
Temperature Namge	X	-40 to +85 °C			
-					
Spread Spectrum Modulation	LE1 (Center Spread)	±0.125 to ±2.0%			
Spread Spectrum woddiation	LE2 (Down Spread)	-0.25 to -4.0%			
-					
Packaging	R	Tape and Reel			

Part Number Example:

S73305-155.520-X-LE-0.5-R

S7: 5.0 x 7.0 mm SMD Package 33: +3.3 ± 5% Vdd Supply Voltage 05: ±50 PPM Temperature Stability 155.520 MHz Nominal Frequency

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

LE-0.5: -0.5% Down Spread (See page 2 for other specifications)

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.