RoHS Compliant Pb - Lead Free

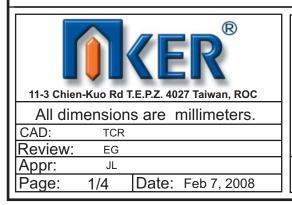
Ltr	Revisions	Date	Appr

Electrical Specifications:

Frequency Range			0.500 to 156.000		MHz	
Temperature Stability			±100			
			±50			
			±30		DDM M	
		±25			PPM Max	
		±20				
Aging per Year		±3				
Operating Temperature Range	Standard			°C		
Operating Temperature Range	Extended					
Storage Temperature Range	•	-55 to +125				
Supply Voltage		1.8 ± 5%	2.5 ± 5%	3.3 ± 10%	Vdd	
	0.500 to 9.999 MHz	5	6	7		
	10.000 to 19.999 MHz	5	8	7		
	20.100 to 31.999 MHz	6	8	12		
Input Current	32.000 to 49.999 MHz	15	20	20	mA Max	
	50.000 to 79.999 MHz	15	20	25		
	80.000 to 99.999 MHz	20	25	30		
	100.000 to 156.000 MHz	25	30	40		
Output Voltage	Logic High (Voh)	90% (80% at 1.8)		Vdd Min		
Output Voltage	Logic Low (Vol) 10% (20% at 1.8)		Vdd Max			
Output Symmetry (Duty Cycle)	Standard	40 to 60		%		
Output Symmetry (Duty Cycle)	Tight	45 to 55				
Output Load		15		pF Max		
	0.500 to 31.999 MHz	5	5	10		
	32.000 to 49.999 MHz	5	5	10	ns Max	
Rise and Fall Time	50.000 to 79.999 MHz	4	4	8		
	80.000 to 99.999 MHz	3	3	5		
	100.000 to 156.000 MHz	3	3	4		
Phase Jitter (12 KHz to 20 MHz)		1		1 ps Max RMS		
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.

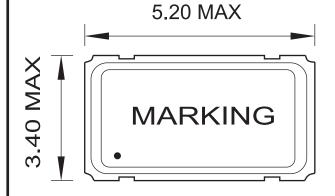


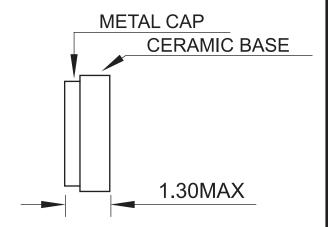
Specification Title:

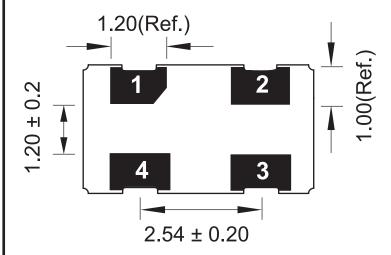
Clock Oscillator Low Profile 5 x 3.2 millimeter Surface Mount General Product Specification

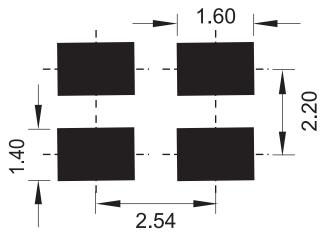
Part Number: **\$5 Series**

Mechanical Outline:









#1 : E/D #2 : GND

#4: VDC #3: OUTPUT

Bottom

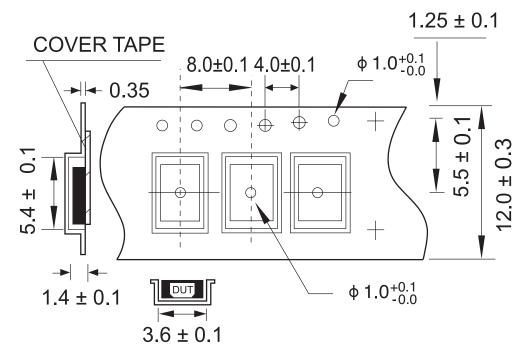
Recommended Land Pattern

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

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

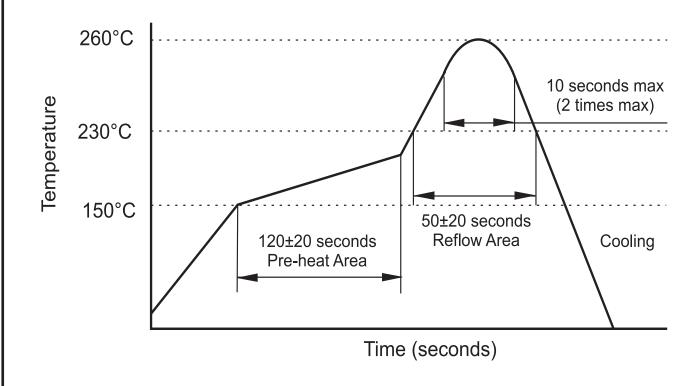
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Carrier Tape Dimensions:



Dimensions are millimeters.

Solder Reflow Characteristics:



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 S5 Series

How to build a Part Number:

Series	S	Parameter
Package	5	3.2 x 5.0 mm
	50	+5.0 Vdd ± 10%
Supply Voltage	33	+3.3 Vdd ± 5%
Supply Voltage	25	+2.5 Vdd ± 5%
	18	+1.8 Vdd ± 5%
	10	±100 PPM
	05	±50 PPM
Temperature Stability	03	±30 PPM
	025	±25 PPM
	02	±20 PPM
Duty Cycle	See Notes	40 / 60 %
Duty Cycle	Т	45 / 55 %
	-	
Frequency	0.500 to 156.000	MHz
	-	
Temperature Range	See Notes	-10 to +70 °C
Temperature Range	X	-40 to +85 °C
	-	
Packaging	R	Tape and Reel

Part Number Example:

S53310-155.520-X-R

S5: 3.2 x 5.0 mm SMD Package

33: +3.3 ± 5% Vdd Supply Voltage

10: ±100 PPM Temperature Stability

155.520 MHz Nominal Frequency

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

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.

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