

**RoHS Compliant
Pb - Lead Free**

Ltr	Revisions	Date	Appr

Electrical Specifications:

Frequency Range	1.000 to 52.000		MHz
Frequency Stability over Temperature	±100		PPM Max
	±50		
	±25		
Aging per Year	±3		
Operating Temperature Range	Standard	0 to 70	
	Extended	-40 to +85	
Storage Temperature Range	-55 to 125		°C
Supply Voltage	3.3 ± 10%	5.0 ± 10%	Vdd
Input Current	50.0	60.0	mA Max
Frequency Deviation over Control Voltage	2.5 ± 2.0 Vdc	±50 and ±100	
	1.65 ± 1.65 Vdc		
Output Voltage	Voh	90%	Vdd Min
	Vol	10%	Vdd Max
Output Symmetry	Standard	40 to 60	%
	Tight	45 to 55	
Output Load	10 TTL or 15		pF
Linearity - Positive Slope	10		%
Rise and Fall Time	5		ns Max
Start-up Time	10		ms Max
Jitter	1.0		ps RMS



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All dimensions are millimeters.

CAD: TCR

Review: EG

Appr: JL

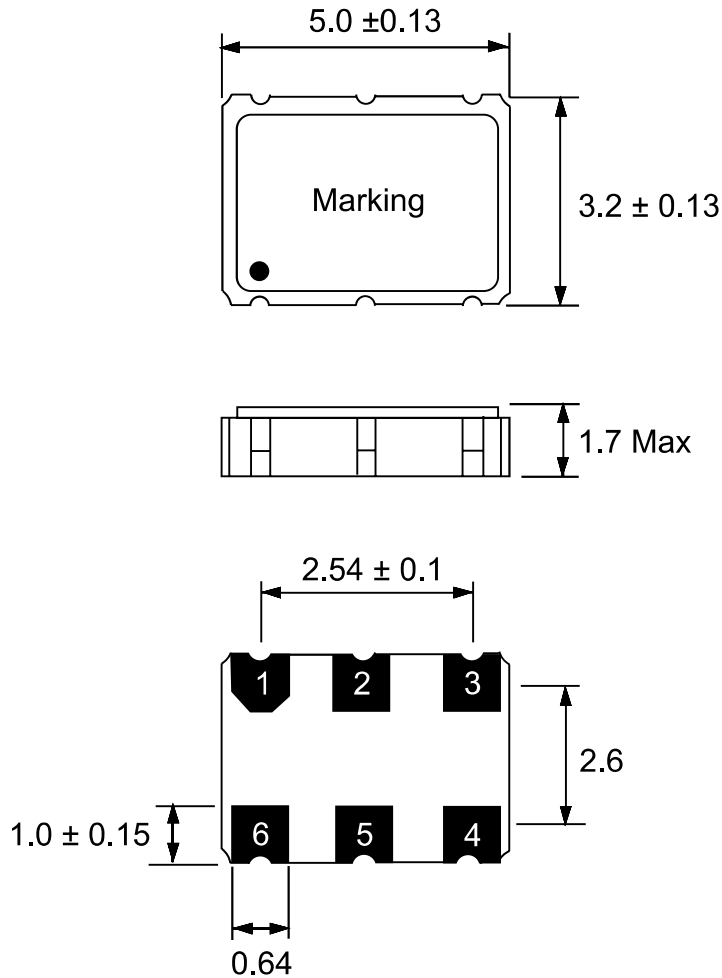
Page: 1/4 | Date: April 30, 2006

Specification Title:

**Voltage Controlled Clock Oscillator
Low Profile
3.2 x 5.0 millimeter Surface Mount
General Product Specification**

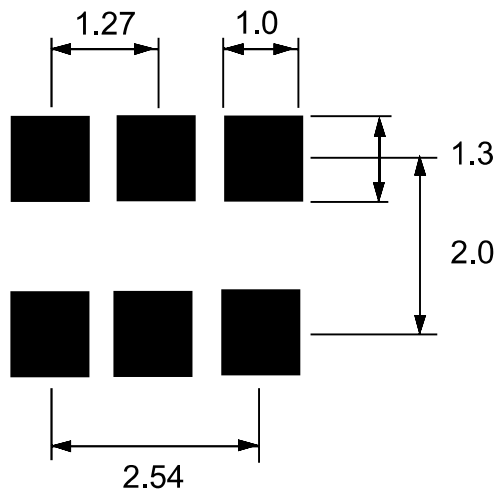
Part Number: **V5F Series**

Mechanical Outline:

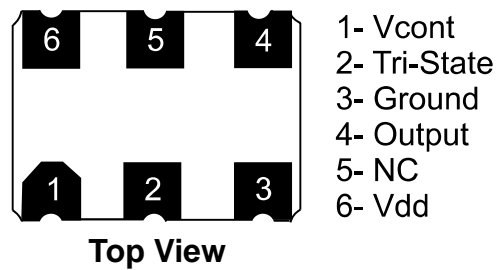


**Package is Seam Sealed Ceramic-Metal.
Dimensions are millimeters.**

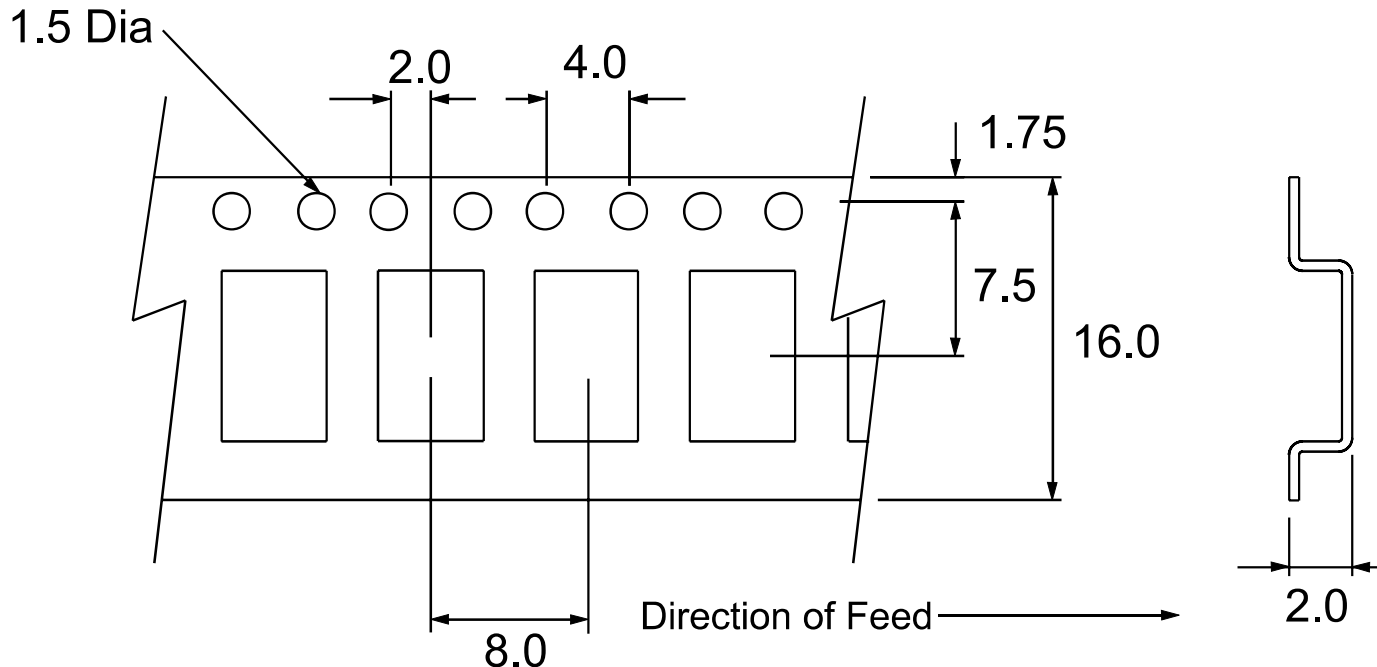
PCB Solder Pad Layout:



Pad Connection:

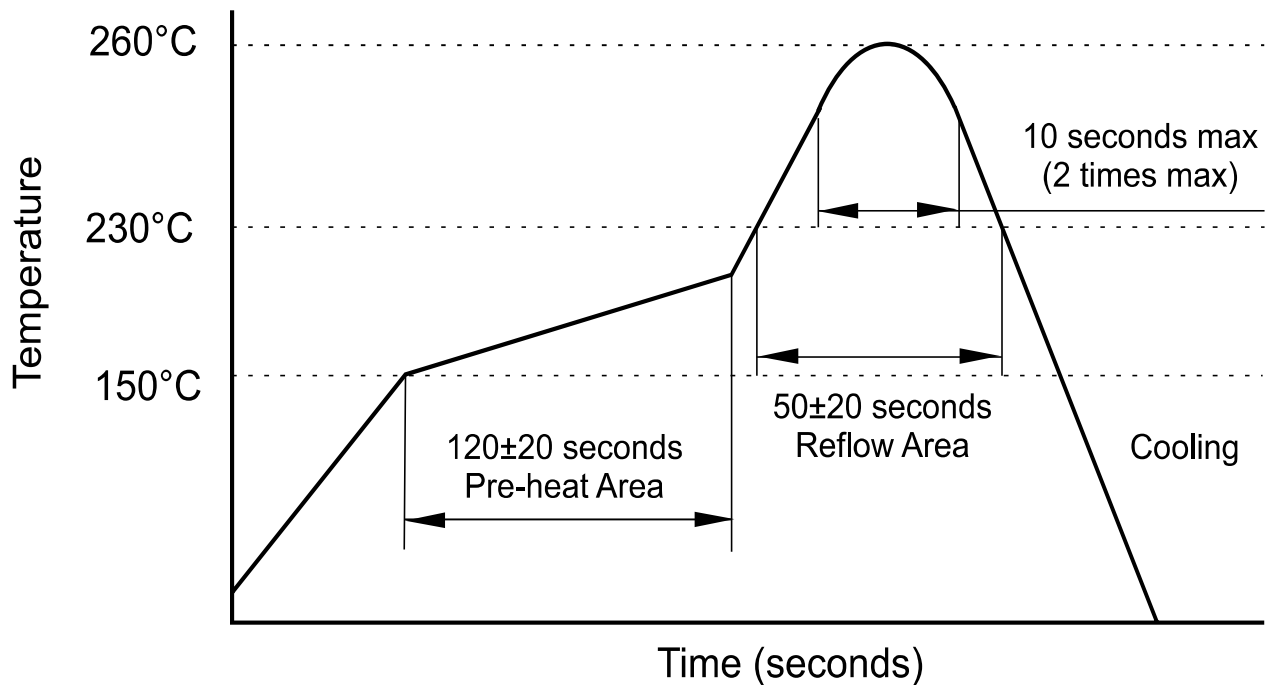


Carrier Tape Dimensions:



Dimensions are millimeters.

Solder Reflow Characteristics:



How to build a Part Number:

Series	V	Parameter
Package	5S	3.2 x 5.0 mm SMD
	-	
Supply Voltage	5	+5.0 Vdc \pm 10%
	33	+3.3 Vdc \pm 10%
Frequency Stability	10	\pm 100 PPM Max
	05	\pm 50 PPM Max
	025	\pm 25 PPM Max
Temperature Range	See Notes	0 to +70 °C
	D3	-40 to +85 °C
Pulling Range	100	\pm 100 PPM Max
	50	\pm 50 PPM Max
Output Symmetry	See Notes	40 to 60
	T	45 to 55
	-	
Output Load	H	HCMOS-TTL Compatible
	-	
Frequency	1.000 to 52.000	MHz
	-	
Packaging	-	Bulk
	R	Tape and Reel

Part Number Example:

V5S-3305D3100T-H-32.768-R

V5S: 3.2 x 5.0 mm SMD Package

33: +3.3 Vdd Supply Voltage

05: \pm 50 PPM Temperature Stability

D3: -40 to + 85° C Extended Temperature Range

100: \pm 100 PPM Pulling Range

T: 45/55 Tight Symmetry

H: HCMOS Output

32.768 MHz Nominal Frequency

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.