



Features Applications

- Hybrid Sinewave design
- Processed in accordance with MIL-PRF-55310D, Class S
- Frequency Range: 201 MHZ to 500 MHZ
- Previous Model: 487Y(HHHH)

Performance Specifications

Parameter	Min	Тур	Max	Units	Condition		
Frequency Stabilities ¹							
vs. operating temperature range (referenced to +25°C)	-25		+25	ppm	-20 +70°C		
Initial Tolerance vs. supply voltage change vs. load change vs. aging / 1 year vs. aging / year (following years)	-2.25 -2.0 -0.5 -3 -2		+2.25 +2.0 +0.5 +3 +2	ppm ppm ppm ppm ppm	at +25°C VS ± 5% Load ± 10%		
Supply Voltage (Vs)							
Supply voltage	14.25	15.0	15.75	VDC			
Power consumption			50	mA			
RF Output							
Signal	Sinewave						
Output Power Output Power	0 +7			dBm dBm	50 Ohm Ioad 50 Ohm Ioad		
Harmonics Sub-Harmonics Spurious			-20 -30 -80	dBc dBc dBc			
Short Term Stability			±0.01 ±0.1 ±1.0 ±10	ppb ppb ppb ppb	1 ms 10 ms 100 ms 1 sec		

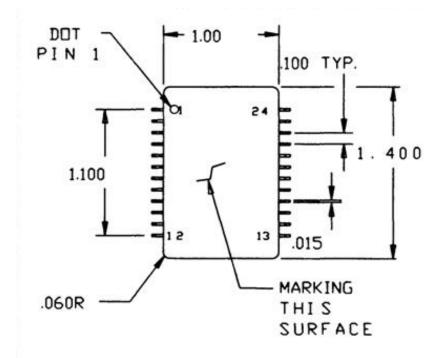
Performance Specifications

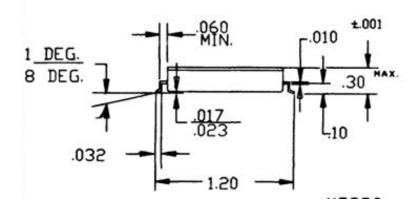
Parameter	Min	Тур	Max	Units	Condition		
Frequency Tuning (EFC)							
Tuning Range	-60		+60	ppm			
Linearity			10	%			
Tuning Slope		Positive					
Control Voltage Range	0.0	2.5	5.0	VDC			
Additional Parameters							
Crystal:	Swept quartz, AT, 3 point mount						
Components:	Class "S" Microelectronic element evaluation per Appendix B of MIL-PRF-55310D						
Rework:	In accordance with MIL-PRF-55310D, Class S						
Class "S" screened:	In accordance with MIL-PRF-55310D, Table III, including internal visual inspection per MIL-STD-883, Method 2017, and PIND testing						
100% PIND testing:	In accordance with MIL-STD-883, Method 2020, Condition B. We may use a VI approved material as a "getter" in our manufacturing process to help pass PIND.						
Group A & B:	100% Group A and 100% Group B testing						
Salt Spray:	Salt spray/salt atmosphere not included in this specification.						
Standard shock and vibration (survive; met by design, not tested):	Shock: 100G, 6 ms per MIL-STD-202, Method 213, Condition C Vibration: Sine: 20G to 2 kHz per MIL-STD-202, Method 204, Condition D Random: 20 Grms overall to 2 kHz per MIL-STD-202, Method 214, Condition I-F						

Notes:

- 1. Active parts are of bi-polar technology and, therefore, are inherently radiation tolerant. If required, VI will provide a parts list and schematic (NDA required) for review and approval of radiation hardness.
- 2. Engineering models are fit, form and function representative of Flight Models and of commercial construction using commercial parts of same generic type as Flight Models. Completed oscillators are not screened, will not contain swept quartz, and are not suitable for flight, DPA, or RGA. Engineering models will not be processed to pass PIND.

Outline Drawing / Enclosure

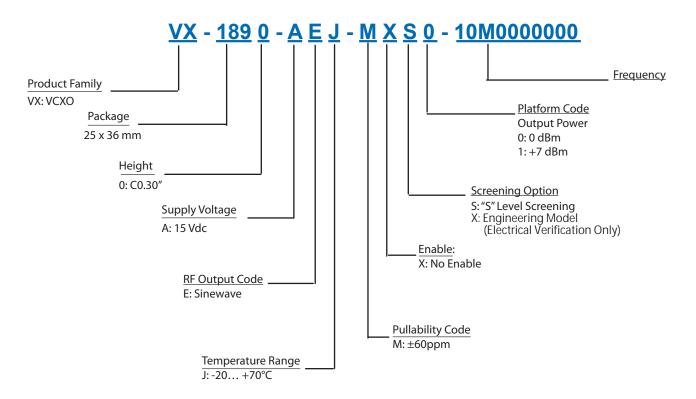




Туре С						
Code	Height "H"	Pin Length				
0	0.30"	NA				

Pin Connections					
1	VCXO input				
12	Ground (Case)				
13	RF Output				
24	Supply				
others	Do Not Use (may be used internally)				

Ordering Information



Notes:

- 1. Contact factory for improved stabilities or additional product options. Not all options and codes are available at all frequencies.
- 2. Unless other stated all values are valid after warm-up time and refer to typical conditions for supply voltage, frequency control voltage, load, temperature (25°C).
- 3. Phase noise degrades with increasing output frequency.
- 4. Subject to technical modification.
- 5. Contact factory for availability.

For Additional Information, Please Contact USA: Asia: Europe: Vectron International Vectron International **Vectron International** 267 Lowell Road, Unit 102 Landstrasse, D-74924 68 Yin Cheng Road(C), 22nd Floor Neckarbischofsheim, Germany Hudson, NH 03051 One LuJiaZui Tel: 1.888.328.7661 Tel: +49 (0) 3328.4784.17 Pudong, Shanghai 200120, China Tel: 86.21.6194.6886 Fax: +49 (0) 3328.4784.30 Fax: 1.888.329.8328 Fax: 86.21.6194.6699 Disclaimer Vectron International reserves the right to make changes to the product(s) and or information contained herein without notice. No liability is assumed as a result of their use or application. No rights under any patent accompany the sale of any such product(s) or information.

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