

Helping Customers Innovate, Improve & Grow



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		S	inewave				
Output Power Output Power	0 +7			dBm dBm	50 Ohm load 50 Ohm load		
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		

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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.

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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)				

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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

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