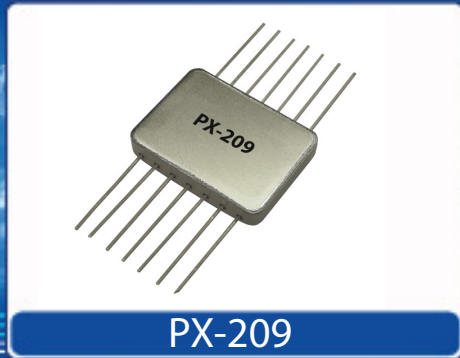


Helping Customers Innovate, Improve & Grow



### Features

- Hybrid Sinewave design
- Processed in accordance with MIL-PRF-55310D, Class S
- Frequency Range: 10 MHz to 300 MHz
- Previous Model: 487Y(EEEE)

### Applications

## Performance Specifications

Parameter	Min	Typ	Max	Units	Condition
<b>Frequency Stabilities<sup>1</sup></b>					
vs. operating temperature range (referenced to +25°C)	-40		+40	ppm	-20... +65°C (custom number required)
vs. aging / 1 year	-3		+3	ppm	
vs. aging / year (following years)	-2		+2	ppm	
<b>Supply Voltage (Vs)</b>					
Supply voltage	14.25	15.0	15.75	VDC	
Power consumption			50	mA	
<b>RF Output</b>					
Signal	Sinewave				
Output Power	0			dBm	50 Ohm load
	+7			dBm	50 Ohm load
Harmonics			-20	dBc	
Sub-Harmonics			-20	dBc	

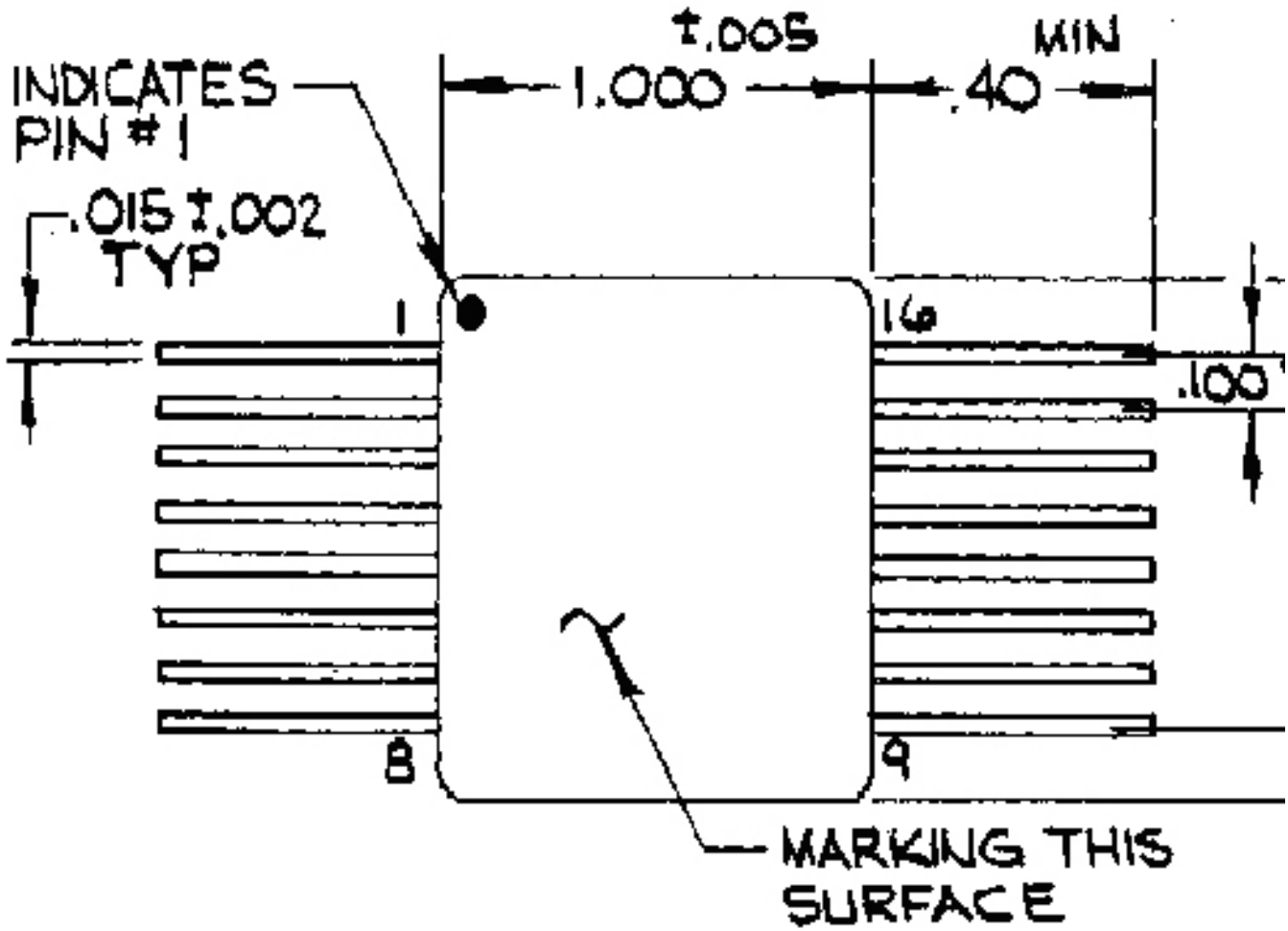
## Performance Specifications

Parameter	Min	Typ	Max	Units	Condition
<b>Additional Parameters</b>					
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				
Leads:	Must meet solderability requirements of MIL-STD-202, Method 208				
Salt Spray:	Salt spray/salt atmosphere not included in this specification.				
Radiation:	Active die are of bi-polar technology inherently radiation tolerant. If required, VI will provide a parts list and schematic (NDA required) for review of radiation hardness.				
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:

- 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.

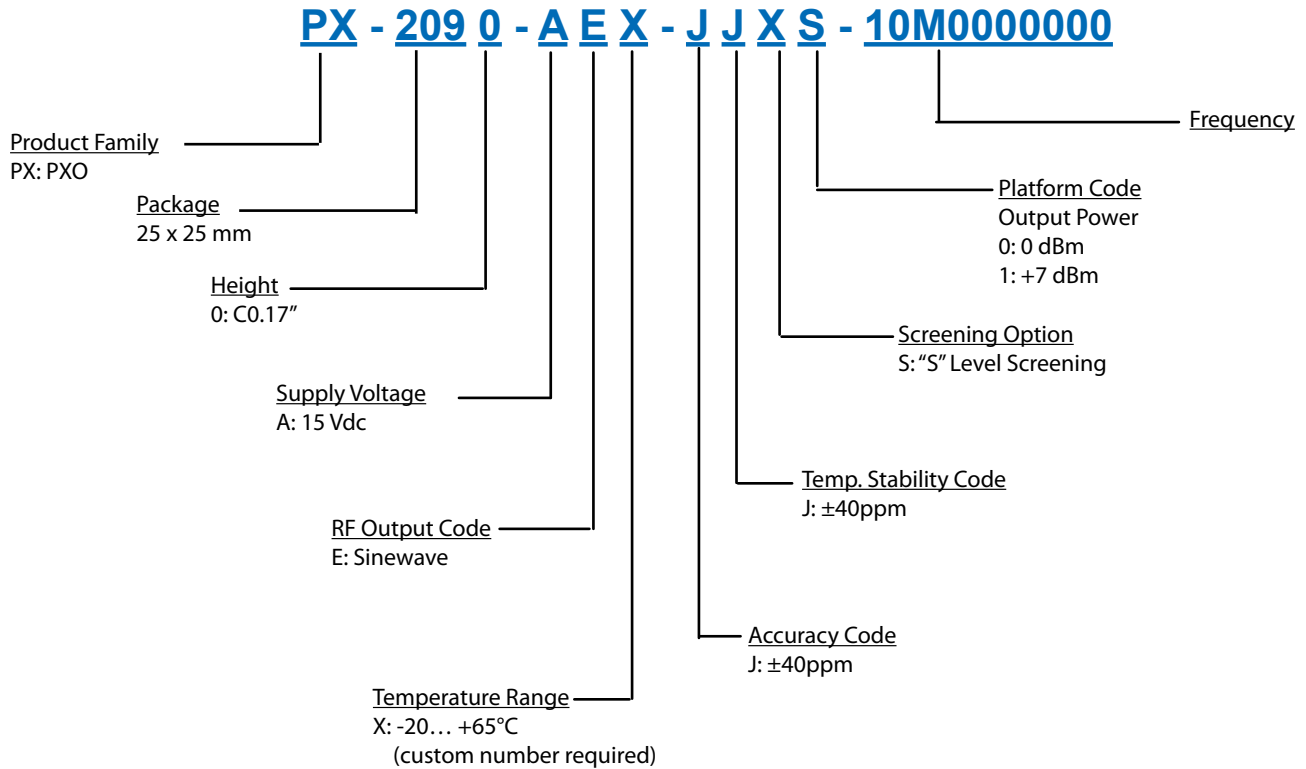
## Outline Drawing / Enclosure



Type C		
Code	Height "H"	Pin Length
0	0.17"	0.40"

Pin Connections	
8	Ground (Case)
9	RF Output
11	RF Return (Case)
16	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

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