



20.2 x 12.6 x 5.08 mm

# 5Vdc • SINE OUTPUT • FULL-SIZE DIP

## VOLTAGE-CONTROLLED CRYSTAL OSCILLATORS

# ACVX1240

### FEATURES:

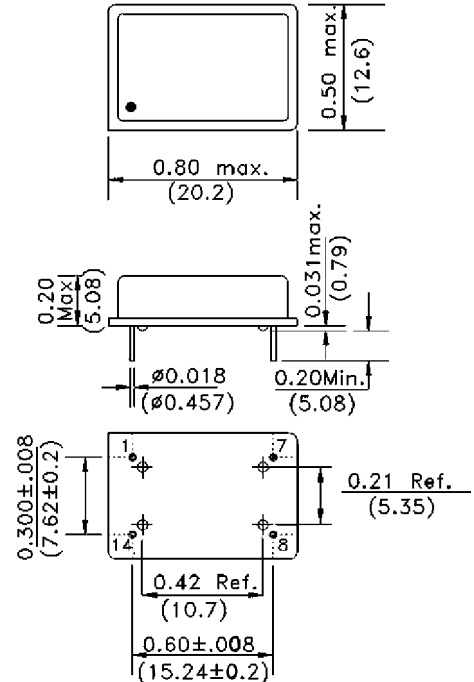
- Sine wave output 0dBm min. into 50Ω.
- Extended temperature available.
- Reduced EMI.
- Wide pulling.

### APPLICATIONS:

- Phase locked loops (PLL) circuit.
- EMI reductions meet FCC requirements.
- Synthesizers.

## STANDARD SPECIFICATIONS

PARAMETERS	SPECIFICATIONS
Frequency Range (F <sub>0</sub> )	<b>8.0MHz - 52.0MHz</b>
Operating Temperature (T <sub>OPR</sub> )	0°C to +70°C (See Options)
Storage Temperature (T <sub>STO</sub> )	-55°C to +125°C
Frequency Stability (ΔF/ F <sub>0</sub> )	±50ppm max (See Options)
Supply Voltage (V <sub>dd</sub> )	5Vdc ±5%
Input Current (I <sub>dd</sub> )	35mA max.
Output Load	50Ω
Output Voltage	0dBm min.
Transfer Function	Positive
Voltage Control (Vc)	2.5Vdc ±2.0Vdc
Frequency Deviation	±100ppm min. (See Options)
Linearity	±10% max.
Harmonics	-30dBc min.
Input Impedance	50k Ω min.
Start-up Time (T <sub>osc</sub> )	10ms max.

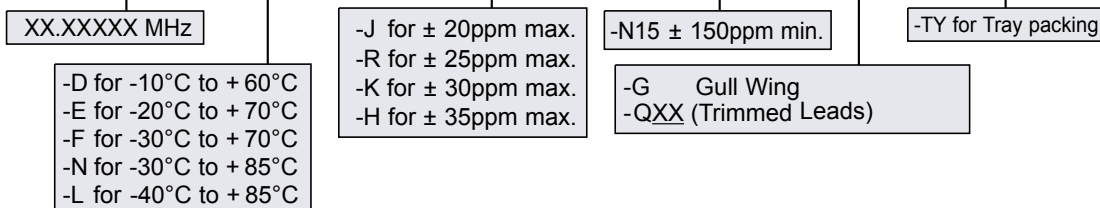


Please Inquire with factory for higher frequencies, other pulling specs., Control voltage range or linearity.  
 Test circuit, waveforms, see appendix B.  
 Environmental and mechanical specifications, see appendix C. Group 1.  
 Marking, see appendix G. Reflow profile, see appendix E.  
 Value added, see appendix D. Recommended handling, see appendix F.  
 Application notes, see appendix A.

PIN NO.	FUNCTION
1	Voltage Control Vc
7	GND / Case
8	Output
14	Vcc

## ORDERING OPTIONS

**ACVX1240 - Frequency - Temperature - Overall Frequency Stability - Pulling - Value Added - Packaging**



NOTE: Left blank if standard • All specifications and markings subject to change without notice

29 Journey • Aliso Viejo, CA 92656 • USA  
 (949) 448-7070 • FAX: (949) 448-8484

E-MAIL: [abinfo@abracon.com](mailto:abinfo@abracon.com) • INTERNET ADDRESS: [www.abracon.com](http://www.abracon.com)

ABRACON IS  
 ISO 9001 / QS 9000  
 CERTIFIED