



5.0 x 3.2 x 1.5 mm

3Vdc • CERAMIC SURFACE MOUNT CRYSTAL OSCILLATORS VOLTAGE-CONTROLLED TEMPERATURE-COMPENSATED ASTX-09 and ASVTX-09 Series

FEATURES:

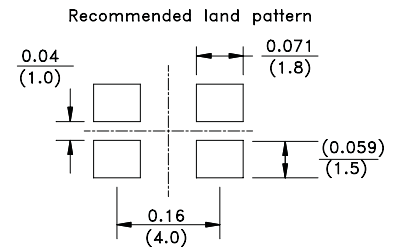
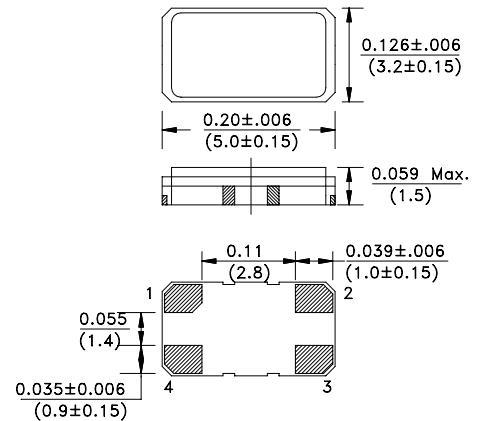
- Leadless surface mount size 5.0 x 3.2 x 1.5 mm max.
- Compact and low in height.
- Suitable for high-density SMT.
- SMD makes reflow soldering possible.
- Low current consumption.
- Vc Function corresponds to PLL circuits.

APPLICATIONS:

- Cellular and cordless phones.
- GPS and communication equipment.
- Portable radio equipment.
- Mobile communication.

STANDARD SPECIFICATIONS

PARAMETERS	ASTX-09	ASVTX-09
Frequency Range (F ₀)	12.800MHz - 19.680MHz*	
Operating Temperature (T _{OPR})	-30°C to +75°C (See Options)	
Storage Temperature (T _{STO})	-40°C to +85°C	
Frequency Stability -vs- 25°C -vs- Temperature -vs- Aging -vs- Supply Voltage	±0.5ppm max. ±2.5ppm max. ±1ppm per year max. ±0.2ppm max. (V _{cc} ± 5%)	
Supply Voltage (V _{CC})	3.0Vdc ±5% (operating at 2.7V ~ 5V)	
Input Current (I _{CC})	2mA max.	
Output Load	10k Ω // 10pF	
Output Voltage	0.8V _{pp} min. Clipped Sine	
Transfer Function (V series)	Positive	
Voltage Control (V Series) (Vc)	-	1.5V ±1Vdc
Frequency Pulling (V Series)	-	±8ppm min.



Dimensions: Inches (mm)

Test circuit, waveforms, please see appendix B.
Environmental and mechanical specifications see appendix C. Group 4.
Marking, see appendix G.
Tape and Reel, see appendix H (1,000 pcs./reel).
Application notes, see appendix A.
Recommended handling, see appendix F.

* Please call us for other frequencies, pulling specs. or control voltage range.

PIN #	FUNCTION
1	Vc or NC
2	GND
3	Output
4	Vcc

ORDERING OPTIONS

ASXTX-09 - Frequency - Packaging

Blank or V

XX.XXXXX MHz

-T Tape and Reel



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

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