VOLTAGE CONTROLLED TEMPERATURE COMPENSATED CRYSTAL OSCILLATOR

ASTX-09/ASVTX-09





5.0 X 3.2 X 1.5mm

FEATURES:

- Low height 1.5mm
- Low phase noise -135dBc typical / 1kHz
- Low current 1.5mA / ~20MHz
- Clipped sine wave output.
- Suitable for RoHS reflow

► APPLICATIONS:

- Cellular and cordless phones.
- GPS
- Mobile com munication equipment.
- Portable radio equipment and music player.

STANDARD SPECIFICATIONS:

PARAMETERS					
ABRACON P/N	ASTX-09/ASVTX-09 Series				
Frequency:	6.000MHz to 45.000MHz				
Nominal Frequencies:	8, 10, 12, 12.8, 13, 14.4, 16.368, 19.2, 19.8, 20, 22, 24.5535, 26.40				
Operating Temperature:	- 30°C to + 75°C (See Table 1 for options)				
Storage Temperature:	- 40°C to + 85°C				
Frequency Stability: vs +25°C before reflow vs Operating Temp. vs Aging vs Supply Voltage vs Load	± 0.5ppm standard (See option) ±2.5ppm standard (See Table1 for options) ± 1ppm/1st year ±0.2ppm (± 5% change) ±0.2ppm (± 10% change)				
Voltage Control Range (Vcc):	1.5V ±1.0V				
Supply Voltage (Vdd):	$3.0V \pm 5\%$ Standard (See options)				
Supply Current:	1.5mA max (~20MHz), 2.0mA max (~32MHz), 2.5mA max (~45MHz)				
Output Type:	Clipped Sine				
Output Voltage	0.8Vp-p min				
Output Load:	10 kohm // 10 pF				
Pullability:	± 8ppm min				
Transfer function:	Positive				
Phase Noise (Reference only):	-135dBc typical @ 1KHz (Frequency dependent.) e.g131dBc typical @ 1KHz (32MHz), Please contact ABRACON for each frequencies.				

○ OPTIONS & PART IDENTIFICATION:

(Left blank if standard)

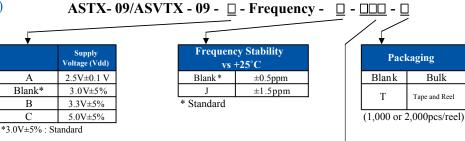


Table 1: Frequency Stability vs Operating Temp.

Table 1: Frequency Stability vs Operating Temp.							
	±1pp m	±1.5pp m	±2pp m	±2.5pp m	±3pp m	±4pp m	±5ppm
0°C-50°C	D10	D15	D20	D25	D30	D40	D50
-10°C to 60°C	E10	E15	E20	E25	E30	E40	E50
0°C to 70°C		F15	F20	F25	F30	F40	F50
-20°C to +75°C			G20	G25	G30	G40	G50
-30°C to 75°C				STD	H30	H40	H50
-40°C to 85°C					I30	I40	I50

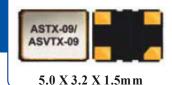




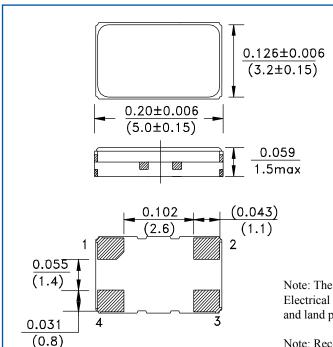
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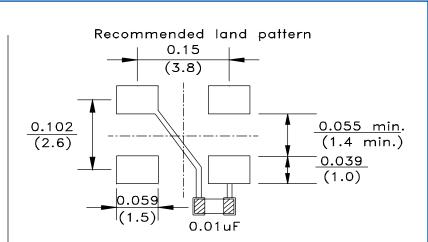
ASTX-09/ASVTX-09





OUTLINE DIMENSIONS:





Note: The outline package may vary. Electrical properties, pin configuration, and land pattern are the same.

Note: Recommend using an approximately 0.01uF bypass capacitor between PIN 2 and 4.

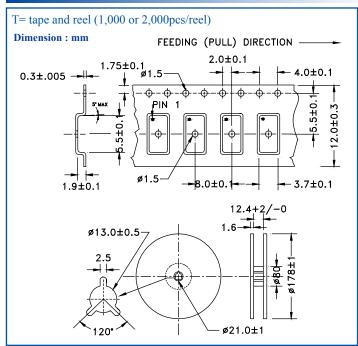
PIN	FUNCTION
1	Vcc/NC*
2	GND
3	Output
4	Vdd

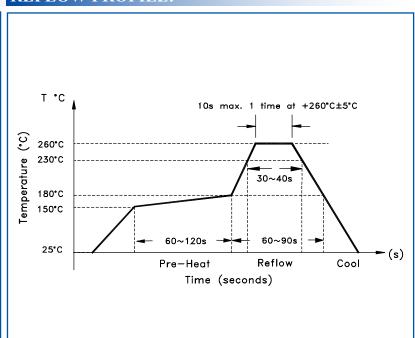
^{*}NC for ASTX-09 only

> TAPE & REEL:

Dimension: Inches (mm)

REFLOW PROFILE:







Need a test socket for the ASTX-09/ASVTX-09 Series? To view compatible **PRECISION TEST & BURN-IN SOCKETS** for these parts, **click here.** ATTENTION: Abracon Corporation's products are COTS – Commercial-Off-The-Shelf products; suitable for Commercial, Industrial and, where designated, Automotive Applications. Abracon's products are not specifically designed for Military, Aviation, Aerospace, Life-dependant Medical applications or any application requiring high reliability where component failure could result in loss of life and/or property. For applications requiring high reliability and/or presenting an extreme operating environment, written consent and authorization from Abracon Corporation is required. Please contact Abracon Corporation for more information.



