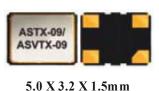
VOLTAGE CONTROLLED TEMPERATURE COMPENSATED CRYSTAL OSCILLATOR



RoHS

Compliant

ASTX-09/ASVTX-09

FEATURES:

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

STANDARD SPECIFICATIONS:

▷ APPLICATIONS:

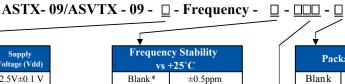
- Cellular and cordless phones.
- GPS
- Mobile com munication equipment.
- Portable radio equipment and music player.

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 $+85^{\circ}$ 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)

▼				
	Supply Voltage (Vdd)			
А	2.5V±0.1 V			
Blank*	3.0V±5%			
В	3.3V±5%			
С	5.0V±5%			
*3.0V±5% : Standard				



Blank* ±0.5ppm J ±1.5ppm * Standard

/	\checkmark	
	Pacl	kaging
Blank		Bulk
	Т	Tape and Reel
	(1.000 am'	000mag/maal)

(1,000 or 2,000pcs/reel)

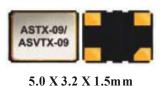
Table 1: Frequency Stability vs Operating Temp.

	±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	E2 5	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					130	I40	150



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VOLTAGE CONTROLLED TEMPERATURE COMPENSATED CRYSTAL OSCILLATOR

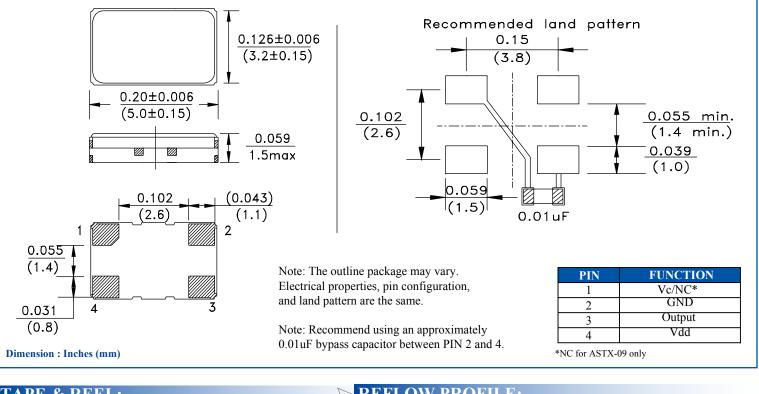


KOHS

Compliant

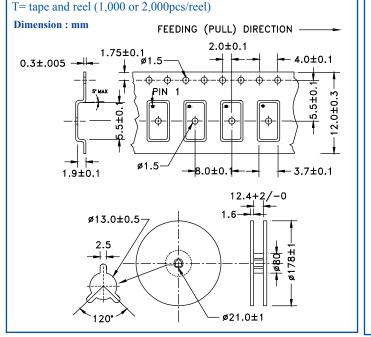
ASTX-09/ASVTX-09

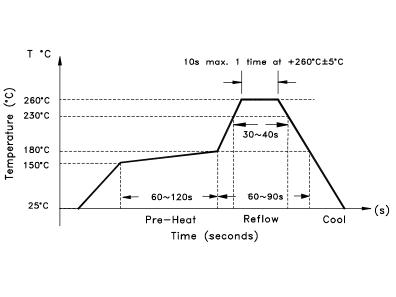
OUTLINE DIMENSIONS:

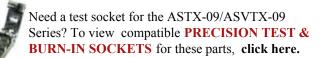


▷ TAPE & REEL:

REFLOW PROFILE:







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.





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