VOLTAGE CONTROLLED TEMPERATURE COMPENSATED CRYSTAL OSCILLATOR



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:

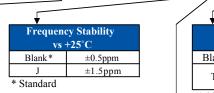
- Cellular and cordless phones.
- GPS
- Mobile com munication equipment.
- Portable radio equipment and music player.

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	\pm 0.5ppm standard (See option)			
vs Operating Temp.	±2.5ppm standard (See Table1 for options)			
vs Aging	± 1 ppm/1st year			
vs Supply Voltage	± 0.2 ppm (\pm 5% change)			
vs Load	± 0.2 ppm ($\pm 10\%$ 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)	(Left	blank	if stand	lard)
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	Supply Voltage (Vdd)
А	2.5V±0.1 V
Blank*	3.0V±5%
В	3.3V±5%
С	5.0V±5%
*3.0V±5% : S	tandard



Packaging				
Blank	Bulk			
Т	Tape and Reel			
(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

ASTX- 09/ASVTX - 09 - □ - Frequency -

ABRACON IS ISO9001:2008 CERTIFIED Downloaded from Elect



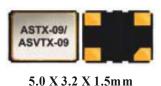
Visit www.abracon.com for Terms & Conditions of Sale **Revised: 04.15.11** 30332 Esperanza, Rancho Santa Margarita, California 92688 tel 949-546-8000 fax 949-546-800 www.abracon.com

5.0 X 3.2 X 1.5mm

RoHS

Compliant

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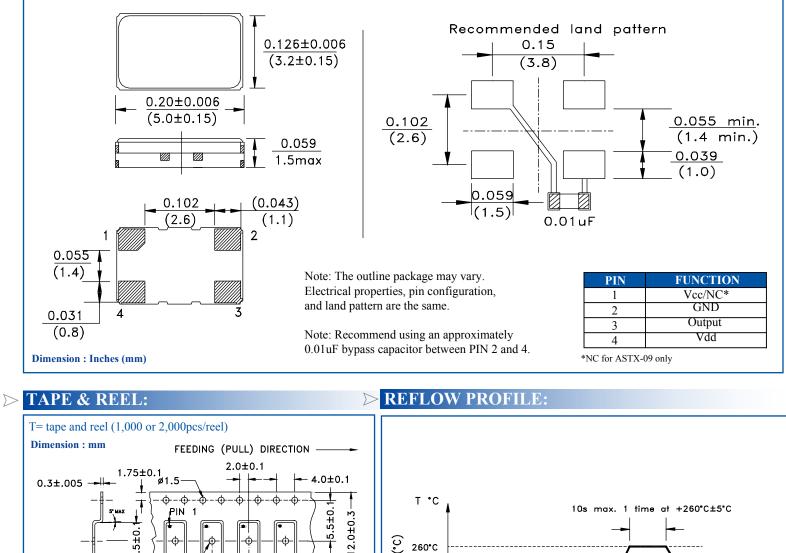


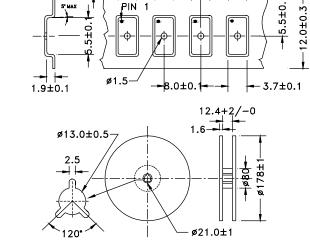
KOHS

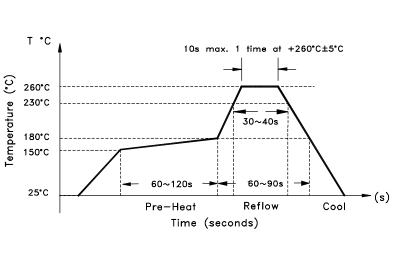
Compliant

ASTX-09/ASVTX-09

OUTLINE DIMENSIONS:







Need a test socket for the ASTX-09/ASVTX-09 Series? To view compatible **PRECISION TEST & BURN-IN SOCKETS** for these parts, **click here.**

ABRACON IS

ISO9001:2008

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