

# HCMOS TEMPERATURE COMPENSATED CRYSTAL OSCILLATOR



ASTX-H09

5.0 x 3.2 x 1.2mm

ASTX-H09



## FEATURES:

- Compact and low in height
- Low current consumption; IR reflow possible
- Suitable for high-density SMT
- HCMOS Output

## APPLICATIONS:

- Cellular and cordless phones
- Standard OSC for exact equipment
- Mobile communication equipment
- Portable radio equipment and music player

## STANDARD SPECIFICATIONS:

### PARAMETERS

ABRACON P/N	ASTX-H09
Frequency	5.000MHz to 50.000MHz
Standard Frequencies	12.8, 13.0, 14.4, 15.36, 16.000, 16.384, 16.8, 19.2, 19.440, 19.680, 19.8, 26.0, 39.0, 48.0 MHz
Operating Temperature	0° C to + 70° C (See Table 1 for options)
Storage Temperature	- 40° C to + 85° C
Freq. Stability vs. Room Temp.	±3.0ppm (1 hour after reflow at Vcc=3.3V)
vs. Operating Temp.	±3.0ppm standard (See Table1 for options)
vs. Aging	±2.0ppm/1st year
vs. Supply Voltage	±0.5ppm (Vcc ± 5% change)
vs. Load	±0.2ppm (± 10% change)
Supply Voltage (Vdd)	3.0 V Standard (See options)
Supply Current	15mA max
Output Type	HCMOS
Output Voltage (VOH)	>2.97V
Output Voltage (VOL)	<0.33V
Rise and Fall Time (Tr/Tf)	6nsec
Output Load	15 pF
Phase Noise	-140dBc/Hz typical @ 100kHz offset; -125dBc/Hz typical @ 1kHz offset
Symmetry	40/60 % @ 50% Vdd
Start-up Time	10msec

## OPTIONS & PART IDENTIFICATION:

(Left blank if standard)

ASTX - H09 - □ - Frequency - □□□ - □

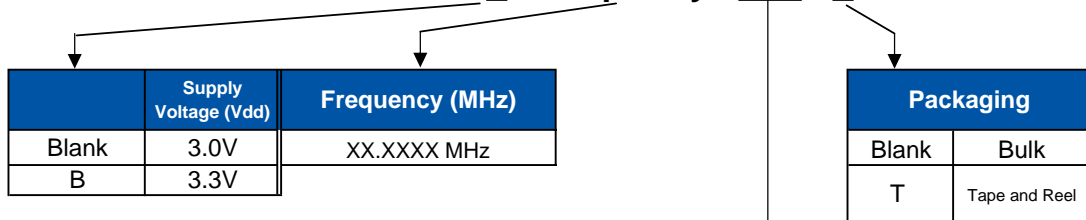


Table 1: Frequency Stability vs Operating Temp.

	±2.5ppm	±3ppm	±4ppm	±5ppm
0°C-50°C	D25	D30	D40	D50
-10°C to 60°C	E25	E30	E40	E50
0°C to 70°C	F25	Blank(STD)	F40	F50
-20°C to +75°C		G30	G40	G50
-30°C to 75°C			H40	H50
-40°C to 85°C			I40	I50

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

# SMD TEMPERATURE COMPENSATED OSCILLATOR



ASTX-H09

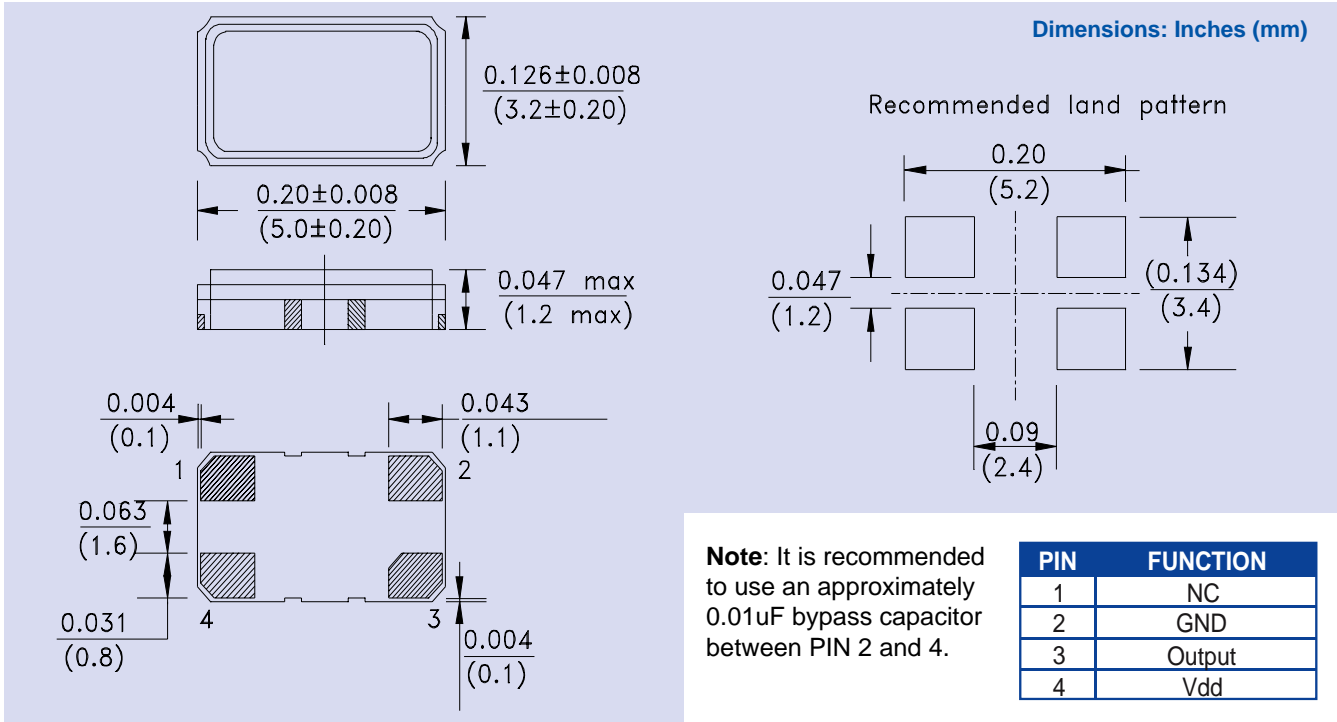
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**RoHS**  
Compliant

## OUTLINE DRAWING:



## TAPE & REEL:

