

HCMOS TEMPERATURE COMPENSATED CRYSTAL OSCILLATOR



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 - □□□ - □

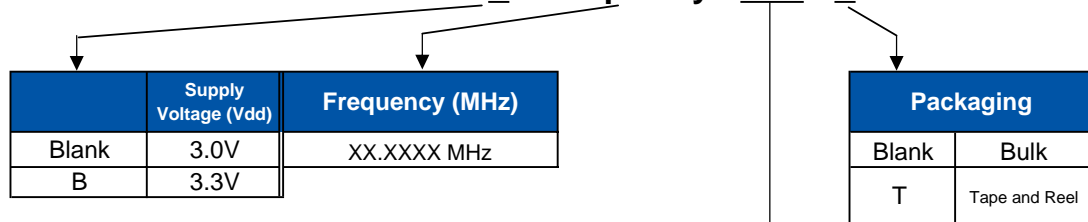


Table 1: Frequency Stability vs Operating Temp.

| | ±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

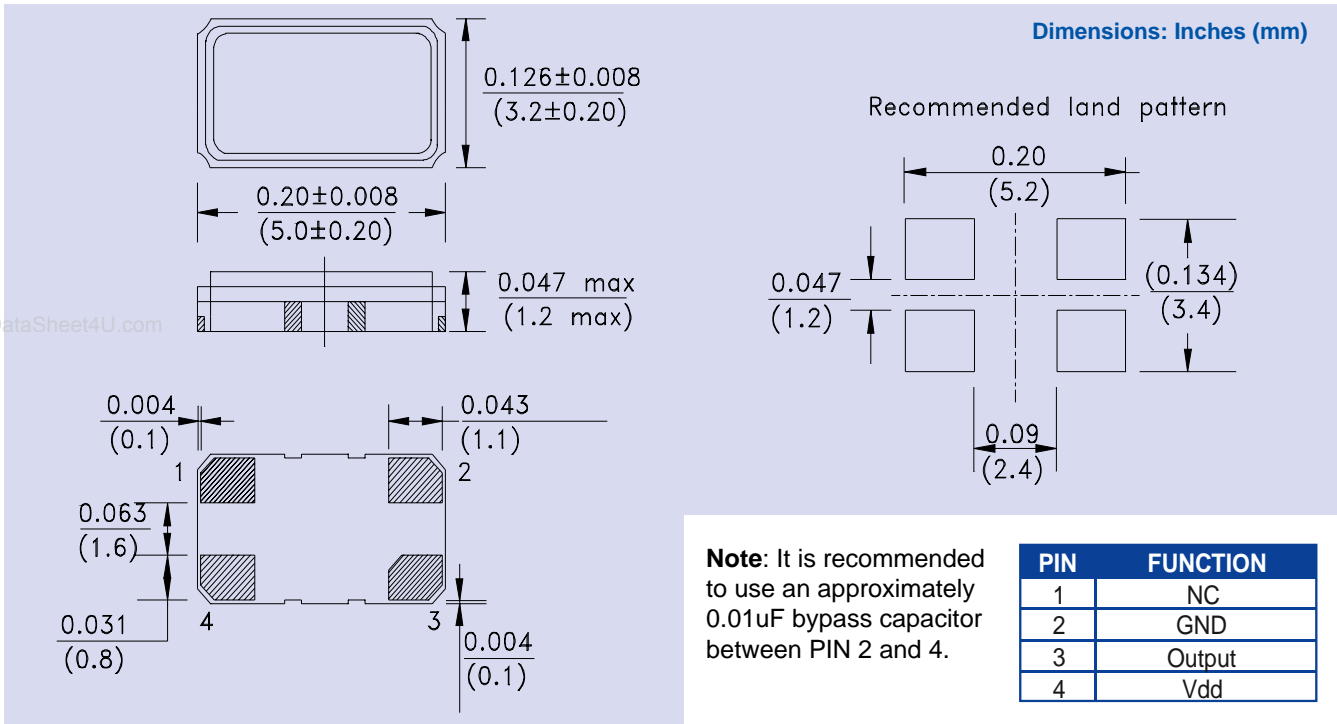
5.0 x 3.2 x 1.2mm

ASTX-H09

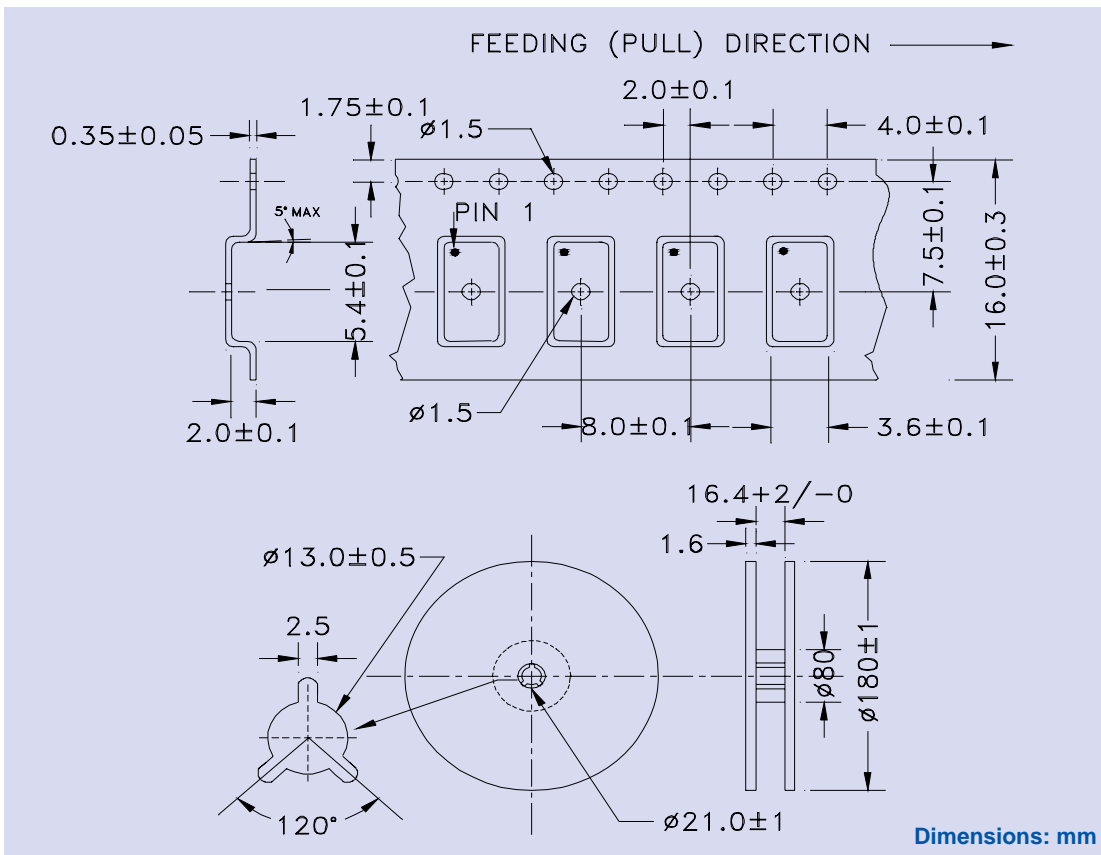


RoHS
Compliant

OUTLINE DRAWING:



TAPE & REEL:



ABRACON IS
ISO 9001 / QS 9000
CERTIFIED

