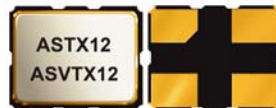


TEMPERATURE COMPENSATED/ VOLTAGE CONTROLLED CRYSTAL OSCILLATOR



2.5 X 2.0 X 0.9mm

ASTX-12, ASVTX-12



FEATURES:

- Compact and low in height.
- Low current consumption.
- Suitable for high-density SMT.
- Vc function corresponds to PLL circuits.
- IR reflow soldering possible.
- Low phase noise.

APPLICATIONS:

- Cellular and cordless phones.
- Standard OSC for exact equipment.
- Mobile communication equipment.
- Portable radio equipment.
- Personal Digital Assistants (PDAs).
- Portable music players.

STANDARD SPECIFICATIONS:

PARAMETERS

ABRACON P/N	ASTX-12 / ASVTX-12 Series
Frequency:	15.000MHz to 40.000MHz
Nominal Frequencies:	16.367667, 16.368, 16.369, 19.2, 26, 40 MHz
Operating Temperature:	- 10°C to +60°C (See Table 1 for options)
Storage Temperature:	- 55°C to + 125°C
Frequency Tolerance (@25°C):	±2.0ppm max. (1 hour after reflow)
Frequency Stability:	±2.5ppm standard (See Table1 for options)
vs Operating Temp.	± 1ppm max.
vs Aging (First year)	±0.2ppm max. (± 5% change)
vs Supply Voltage	±0.2ppm max. (± 10% change)
vs Load	
Voltage Control Range (Vcc):	0.4V ~ 2.4V
Supply Voltage (Vdd):	See options
Supply Current:	2.0mA max (15MHz ≤ Fo < 26MHz), 2.5mA max (26MHz ≤ Fo ≤ 40MHz)
Output Type:	Clipped Sine
Output Voltage	0.8Vp-p min
Output Load:	10 kΩ// 10 pF
Pullability: (ASVTX-12 only)	± 5.0ppm min
Start-up time:	2ms Max
Phase noise @ 19.2MHz	-115 dBc/Hz typical @ 100Hz, -135 dBc/Hz typical @ 1kHz, -148 dBc/Hz typical @ 10kHz
Vc Input Impedance	500kΩ min.

OPTIONS & PART IDENTIFICATION:

(Left blank if standard)

ASTX- 12/ASVTX - 12 - □ - Frequency - □□□ - □

	Supply Voltage (Vdd)
A	3.0V±5%
B	2.8V±5%
C	2.5V±5%

*3.0V±5% : Standard

Packaging	
Blank	Bulk
T	Tape and Reel

(1,000 or 3,000pcs/reel)

Table 1: Frequency Stability vs Operating Temp.

	±0.5ppm	±1ppm	±1.5ppm	±2ppm	±2.5ppm
0°C-50°C	D05	D10	D15	D20	D25
-10°C to 60°C	E05	E10	E15	E20	STD
0°C to 70°C	F05	F10	F15	F20	F25
-20°C to 70°C	G05	G10	G15	G20	G25
-30°C to 85°C	H05**	H10	H15	H20	H25
-40°C to 85°C		I10**	I15	I20	I25

** Contact ABRACON for availability



Visit www.abracon.com for Terms & Conditions of Sale **Revised: 09.14.09**
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TEMPERATURE COMPENSATED/ VOLTAGE CONTROLLED CRYSTAL OSCILLATOR



2.5 X 2.0 X 0.9mm

ASTX-12, ASVTX-12



OUTLINE DRAWING:

PIN	FUNCTION	
	VCTCXO	TCXO
1	Vcc	GND
2	GND	
3	OUTPUT	
4	Vdd	

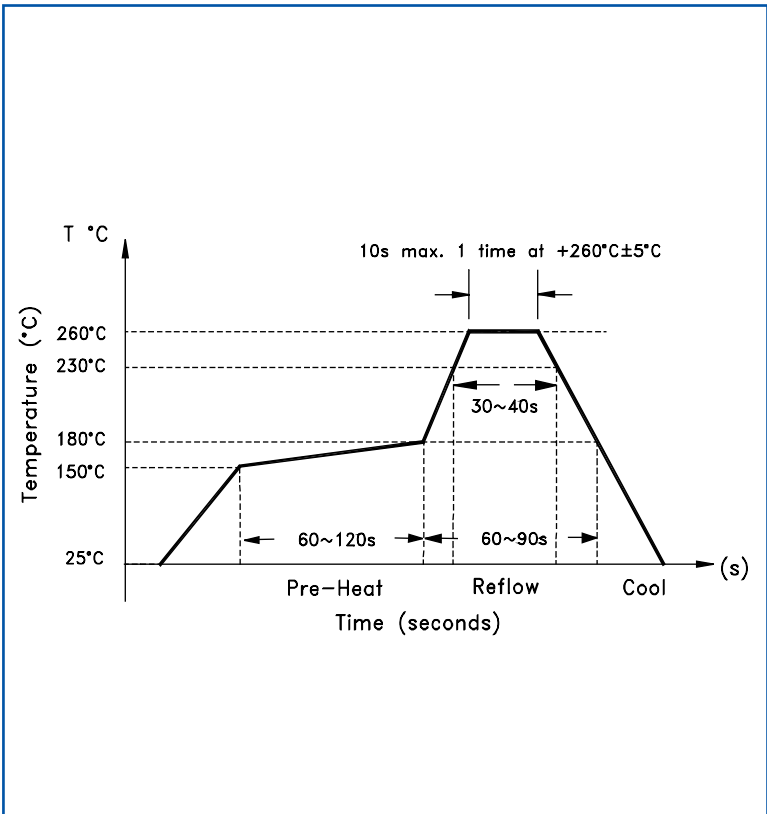
Note: Recommend using an approximately 0.01µF bypass capacitor between PIN 2 and 4.

Dimension : Inches (mm)

TAPE & REEL: T= tape and reel (1,000 pcs/reel or 3000 pcs/reel)

Dimension : mm

REFLOW PROFILE:



Need a test socket for the ASTX12_ASVTX12 Series?
To view compatible **PRECISION TEST & BURN-IN SOCKETS** for these parts, [click here](#).

NOTE: Abracon manufactured products are intended for general commercial and industrial use. For applications requiring high reliability and/or presenting extreme operating environment, written consent & authorization from Abracon is required.

ABRACON IS
ISO 9001 / QS 9000
CERTIFIED



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