Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!

Contact us

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VOLTAGE CONTROLLED TEMPERATURE COMPENSATED CRYSTAL OSCILLATOR

ASVTX-09

ASVTX09

RoHS Compliant

5.0 X 3.2 X 1.5mm

▷ **FEATURES:**
- Compact and low in height.
- Low current consumption.
- Suitable for high-density SMT.
- Vc function corresponds to PLL circuits.
- IR reflow possible.

▷ **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	ASVTX-09
Frequency	10.000MHz to 44.545MHz
Standard Frequencies	12.8MHz, 13.0MHz, 14.4MHz, 15.36MHz, 16.000MHz, 16.384MHz,
	16.8MHz, 19.2MHz, 19.440MHz, 19.680MHz, 19.8MHz, 26.0MHz
Operating Temperature	- 30° C to + 75° C (See Table 1 for options)
Storage Temperature	- 40° C to + 85° C
Freq. Stability vs. +25°C	± 0.5ppm standard (See option)
vs. Operating Temp.	±2.5ppm standard (See Table1 for options)
vs. Aging	± 1ppm/1st year
vs. Supply Voltage	±0.2ppm (± 5% change)
vs. Load	±0.2ppm (± 10% change)
Voltage Control Range (Vcc)	1.5V ±1.0V standard (See options)
Supply Voltage (Vdd)	3.0V ± 5% Standard (See options)
Supply Current	2mA max
Output Type	Clipped Sine
Output Voltage	0.8Vp-p min
Output Load	10 kohm // 10 pF
Pullability	± 8ppm min
Transfer Function	Positive
Phase Noise	-110dBc/Hz @ 100KHz offset; -130dBc/Hz @ 1KHz offset

▷ **OPTIONS & PART IDENTIFICATION:**

(Left blank if standard)

ASVTX - 09 - ☐ - Frequency - ☐ - ☐☐☐ - ☐

	Supply Voltage (Vdd)	Control Voltage (Vcc)	Frequency Stability vs +25˚C	
A	2.5V±5%	1.25V±1.0V	Blank*	±0.5ppm
Blank*	3.0V±5%	1.5V±1.0	J	±1.5ppm
B	3.3V±5%	1.65V± 1.5V		
C	5.0V±5%	2.5V± 2.0V	* Standard	

*3.0V±5% : Standard

Packaging	
Blank	Bulk
T	Tape and Reel

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

Table 1: Frequency Stability vs Operating Temp.

	±1ppm	±1.5ppm	±2ppm	±2.5ppm	±3ppm	±4ppm	±5ppm
0°C-50°C	D10	D15	D20	D25	D30	D40	D50
-10°C to 60°C	E10	E15	E20	E25	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					I30	I40	I50

ABRACON CORPORATION

VOLTAGE CONTROLLED TEMPERATURE COMPENSATED CRYSTAL OSCILLATOR

ASVTX-09

ASVTX09

RoHS Compliant

5.0 X 3.2 X 1.5mm

▷ OUTLINE DRAWING:

0.126±0.008
(3.2±0.20)

0.20±0.008
(5.0±0.20)

0.059±0.004
1.5±0.10

0.102
(2.6)

(0.044)
(1.12)

0.063
(1.6)

0.028
(0.72)

1   2
4   3

Recommended land pattern
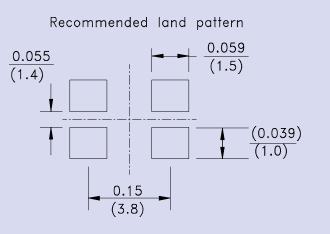
0.055
(1.4)

0.059
(1.5)

(0.039)
(1.0)

0.15
(3.8)

Dimensions: Inches (mm)

Note: It is recommended to use an approximately 0.01uF bypass capacitor between PIN 2 and 4.

PIN	FUNCTION
1	Vcc
2	GND
3	Output
4	Vdd

▷ TAPE & REEL:

FEEDING (PULL) DIRECTION

0.3±.005

1.75±0.1

ø1.5

2.0±0.1

4.0±0.1

5° MAX

PIN 1

5.5±0.1

5.5±0.1

12.0±0.3

1.9±0.1

ø1.5

8.0±0.1

3.7±0.1

ø13.0±0.5

2.5

120°

ø21.0±1

12.4+2/−0

1.6

ø80

ø178±1

Dimensions: mm

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