

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

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China







SMD VC/TCXO

ASTX-11, ASVTX-11







Moisture Sensitivity Level (MSL) – This product is Hermetically Sealed and not Moisture Sensitive - MSL = N/A: Not Applicable

FEATURES:

- 3.2 x 2.5 x 0.9mm miniature package
- Low current consumption 1.5mA for 19.68MHz
- Vc function corresponds to PLL circuits
- Suitable for RoHS reflow profile

> APPLICATIONS:

- Cellular and cordless phones
- Standard OSC for exact equipment
- Mobile com munication equipment
- Portable radio equipment and music player.
- PLL

STANDARD SPECIFICATIONS:

Parameters	Minimum	Typical	Maximum	Units	Notes
Frequency Range	10		40	MHz	
Standard Frequencies:	10, 13, 14.4, 16.3676, 19.2, 19.8, 20, 24.5535, 26, 33.6, 38.4, 39, 40		MHz		
Operating Temperature:	-30		+75	°C	
Storage Temperature:	-40		+85	°C	
Frequency Stability Δf/f0 vs Tolerance (@+25°C) at shipping:	-0.5		+0.5	ppm	
Tolerance (@+25°C) after reflow:	-1.5		+1.5	ppm	
Temperature (ref. to +25°C):	-2.5		+2.5		See option (Tabel 1)
Supply Voltage Change (Vdd±5%):	-0.2		+0.2		
Load Change (ZL±10%):	-0.2		+0.2		
Supply Voltage (Vdd):	+3.135	+3.3	+3.465	V	See option
Aging (first year @+25°C):	-1.0		+1.0	ppm	
			1.5	mA	~19.68MHz
Supply Current (Icc):			2.0	mA	~32.00MHz
			2.5	mA	~40.00MHz
Voltage Control Function (for ASVTX-11) Control Voltage (Vcc): Frequency Tuning Range: Frequency Tuning Transition:	+0.5 ±8 Positive 500	+1.5	+2.5	Vdc ppm kΩ	
Input Impedance: Output					
Voltage:	0.8	Γ	Γ	Vnn	
Load:	0.8 10kΩ//10pF		Vp-p		
Waveform:	Clipped Sine Wave				
Phase Noise:		-135		dBc	@1kHz



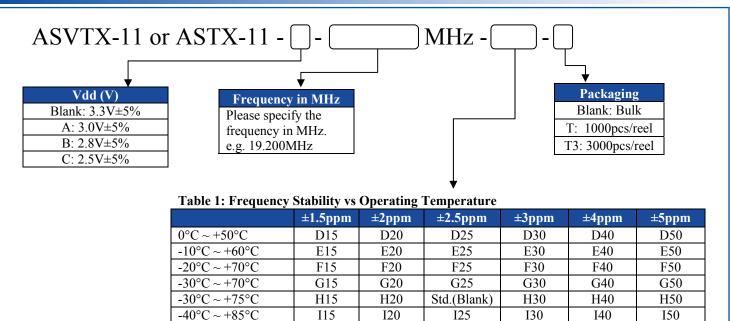






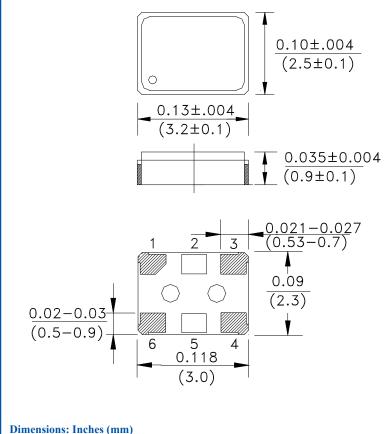


> OPTIONS & PART IDENTIFICATION:

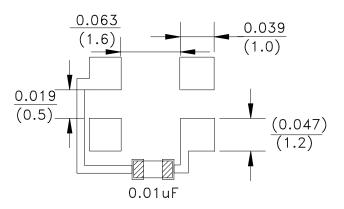


OUTLINE DRAWING:

6-pad package (Date Code prior to March 2014):



Recommended land pattern



Note 1: It is not recommended that paths go underneath the oscillator. If needed, please use multi-layer PCB board or resist coating.

Note 2: Recommend using an approximately $0.01\mu F$ bypass capacitor between Pin 3 and 6.

Pin	Function				
rin	ASVTX-11	ASTX-11			
1	Vc	GND			
2	N.C.				
3	GND				
4	Output				
5	N.C.				
6	Vdd				

ABRACON IS ISO9001:2008 CERTIFIED



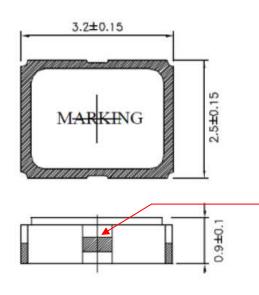




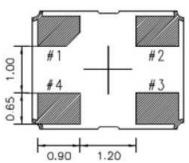


OUTLINE DRAWING:

4-pad package (Date Code March 2014 and later):

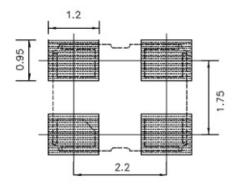


Due to material availability, 1 or 2 side pads may appear on the side of the package The variation in no way affects the electrical performance of the product.



Pin	Function				
FIII	ASVTX-11	ASTX-11			
1	Vc	GND			
2	GND				
3	Output				
4	Vdd				

Recommended Land Pattern



Note 1: It is not recommended that paths go underneath the oscillator. If needed, please use multi-layer PCB board or resist coating.

Note 2: Recommend using an approximately $0.01\mu F$ bypass capacitor between Pin 2 and 4.

Dimensions: mm





SMD VC/TCXO

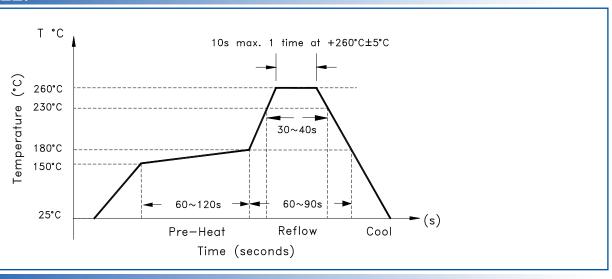
ASTX-11, ASVTX-11







REFLOW PROFILE:



TAPE & REEL:

T: 1000pcs/reel
T3: 3000pcs/reel

FEEDING (PULL) DIRECTION

2.0±0.1

0.25±.005

91.5

PIN1

PIN1

91.0

91.0

91.0

91.0

91.0

91.0

91.0

91.0

91.0

91.0

91.0

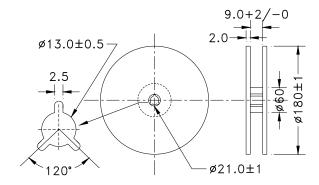
91.0

91.0

91.0

91.0

91.0



Dimensions: mm

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