



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

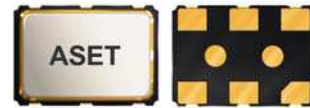
Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

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

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



# TIGHT STABILITY INDUSTRIAL GRADE CRYSTAL OSCILLATOR



3.2 x 2.5 x 1.2mm

## ASET SERIES



**ESD Sensitive**



**RoHS/RoHS II compliant**

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

### FEATURES:

- Highly reliable seam-sealed package
- Low current consumption 7mA
- Low phase noise and jitter
- Industrial grade tight temperature stability available ( $\pm 10\text{ppm} / -40$  to  $+85^\circ\text{C}$ )
- Fast start-up time 0.2ms typical
- CMOS output with Tri-state function

### APPLICATIONS:

- Home networking by AC socket
- Wireless LAN
- Mobile communications
- PLC modem
- WiMax

### STANDARD SPECIFICATIONS:

Parameters	Minimum	Typical	Maximum	Units	Notes
Frequency Range	4		54	MHz	
Standard Frequencies	5, 10, 12, 16, 20, 24, 26, 27, 32, 40, 44			MHz	
Operating Temperature	-40		+85	$^\circ\text{C}$	
Storage Temperature	-40		+85	$^\circ\text{C}$	
Overall Frequency Stability*	-15		+15	ppm	See options
Supply Voltage (Vdd)	+2.7	3.0	+3.3	V	See options
Supply Current (Idd)			7.0	mA	
Stand-by Current			10	$\mu\text{A}$	
Symmetry	45		55	%	@ 1/2Vdd
Rise and Fall Time (Tr/Tf)			5.0	ns	10%Vdd-90%Vdd
Output Load			15	pF	CMOS
Output Voltage (VOH)	0.9* Vdd			V	
Output Voltage (VOL)			0.1* Vdd	V	
Start-up Time		0.2	3.0	ms	
RMS Jitter		3.0		ps	
Tri-state function	"1" ( $V_{IH} \geq 0.7 * V_{DD}$ ) or Open: Oscillation "0" ( $V_{IH} < 0.3 * V_{DD}$ ): Hi Z				
Phase Noise (@10kHz offset)		-143		dBc/Hz	
Aging@+25 $^\circ\text{C}$	-2		+2	ppm	First year
	-7		+7		10 years

\* Overall frequency stability includes initial tolerance @ +25 $^\circ\text{C}$ , and temperature stability

### OPTIONS AND PART IDENTIFICATION:

(Left blank if standard)

ASET-  -  MHz -  -

#### Supply Voltage

Blank: 3.0 $\pm 10\%$   
A: 2.7 $\pm 10\%$   
B: 3.3 $\pm 10\%$   
C: 2.8 $\pm 10\%$   
D: 2.5 $\pm 10\%$

#### Frequency in MHz

Please specify the frequency in MHz.  
e.g. 24.000MHz

#### Overall Freq. Stability

Blank:  $\pm 15\text{ppm}$   
Y:  $\pm 10\text{ppm}$   
R7\*:  $\pm 7\text{ppm}$   
R5\*:  $\pm 5\text{ppm}$

#### Packaging

Blank: Bulk  
T: Tape & Reel

\*Contact Abracon for availability

ABRACON IS  
ISO 9001:2008  
CERTIFIED



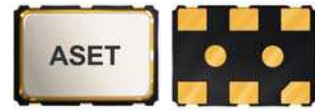
**ABRACON**  
CORPORATION

2 Faraday, Suite# B | Irvine | CA 92618 **Revised: 12.09.14**  
Ph. 949.546.8000 | Fax. 949.546.8001

Visit [www.abracon.com](http://www.abracon.com) for Terms and Conditions of Sale



# TIGHT STABILITY INDUSTRIAL GRADE CRYSTAL OSCILLATOR



ASET

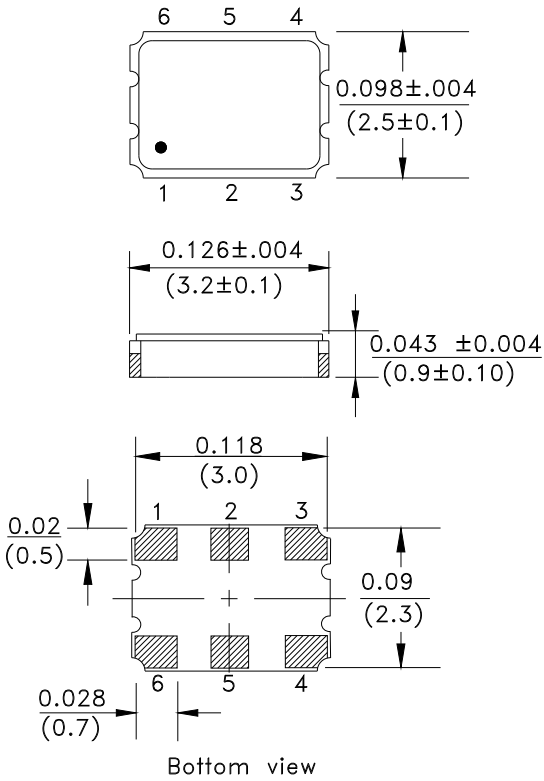
3.2 x 2.5 x 1.2m m

ASET SERIES

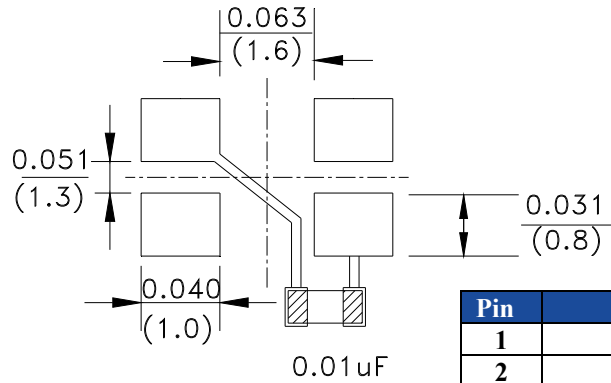


RoHS/RoHS II compliant

## OUTLINE DRAWING:



## Recommended land pattern



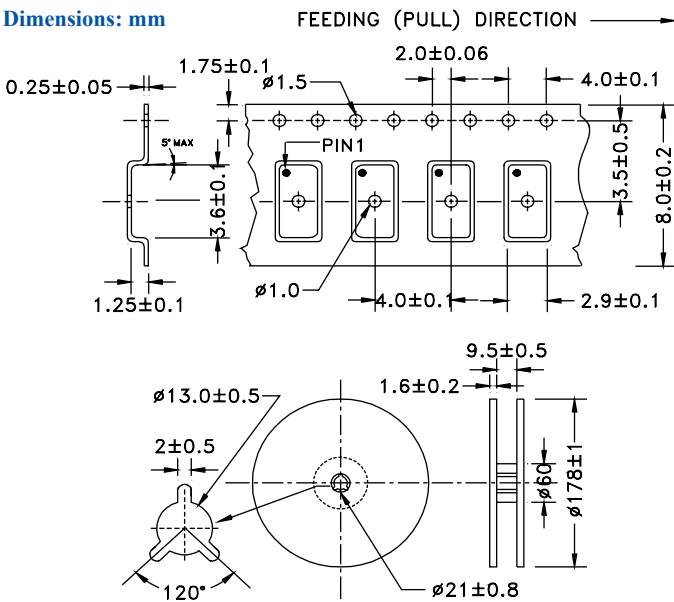
Pin	Function
1	OE
2	NC
3	GND
4	Output
5	NC
6	Vdd

Note: Recommend using an approximately 0.01uF bypass capacitor between PIN 3 and 6.

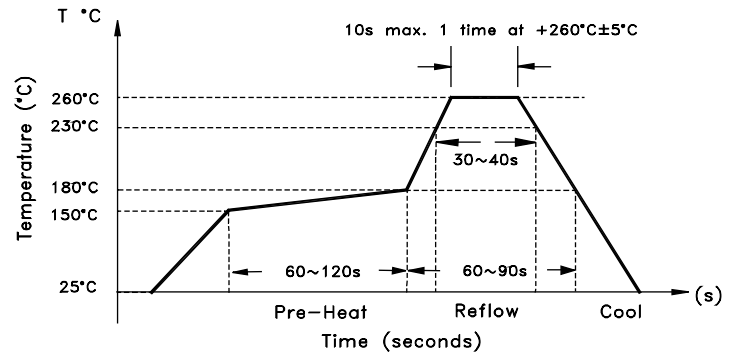
Dimensions: Inches (mm)

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

Dimensions: mm



## REFLOW PROFILE



Need a test socket for the ASET Series? To view compatible **PRECISION TEST & BURN-IN SOCKETS** for these parts, [click here](#). P/N: **AXS-3225-04-05**

**ATTENTION:** Abracon Corporation's products are COTS – Commercial-Off-The-Shelf products; suitable for Commercial, Industrial and, where designated, Automotive Applications. Abracon's products are not specifically designed for Military, Aviation, Aerospace, Life-dependant Medical applications or any application requiring high reliability where component failure could result in loss of life and/or property. For applications requiring high reliability and/or presenting an extreme operating environment, written consent and authorization from Abracon Corporation is required. Please contact Abracon Corporation for more information.

ABRACON IS  
ISO 9001 :2008  
CERTIFIED



2 Faraday, Suite# B | Irvine | CA 92618 **Revised: 12.09.14**

Ph. 949.546.8000 | Fax. 949.546.8001

Visit [www.abracon.com](http://www.abracon.com) for Terms and Conditions of Sale