

TIGHT STABILITY INDUSTRIAL GRADE CRYSTAL OSCILLATOR



3.2 x 2.5 x 0.9mm

ASET SERIES



**RoHS
Compliant**

FEATURES:

- Highly reliable seam-sealed package
- Low current consumption
- Low phase noise and jitter
- Industrial grade tight temperature stability available (± 10 ppm / -40 to +85°C)
- Fast start-up time
- CMOS output with Tri-state function

APPLICATIONS:

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

STANDARD SPECIFICATIONS:

PARAMETERS	
ABRACON P/N:	ASET Series
Frequency:	4.000MHz to 54.000MHz
Standard Frequencies:	5, 10, 12, 16, 20, 24, 26, 27, 32, 40, 44MHz
Output level:	CMOS
Operating temperature:	- 40°C to +85°C
Storage temperature:	- 40°C to +85°C
Overall Frequency Stability*:	± 15 ppm (see options)
Supply voltage (Vdd):	3.0Vdc \pm 10% (see options)
Supply Current (Idd):	7mA max.
Stand-by Current	10 μ A max.
Symmetry:	45/55 % @ 50% Vdd
Rise and Fall Times(Tr/Tf):	5ns max. / 10%Vdd-90%Vdd
Start-up time:	0.2ms typical, 3ms max.
Output load:	15pF max.
Output Voltage:	VOH = 0.9*Vdd min. VOL = 0.1*Vdd max.
Aging @ 25°C:	± 2 ppm/ first year, ± 7 ppm/ 10 years
Phase Noise (@ 10kHz offset):	-143dBc/Hz Typ.
Jitter:	1 σ 3ps typ.

* Overall frequency stability includes initial tolerance @ +25° C, and temperature stability.

OPTIONS AND PART IDENTIFICATION:

(Left blank if standard)

ASET - - Frequency - -

P/N and Vdd (V)		Frequency	Freq. Stability		Packaging	
Blank	3.0 \pm 10%	XX.XXXX MHz	Blank	± 15 ppm	Blank	Bulk
A	2.7 \pm 10%		Y	± 10 ppm	T	Tape and Reel
B	3.3 \pm 10%		R7*	± 7 ppm		
C	2.8 \pm 10%		R5*	± 5 ppm		
D	2.5 \pm 10%					

* Contact ABRACON for availability



TIGHT STABILITY INDUSTRIAL GRADE CRYSTAL OSCILLATOR



3.2 x 2.5 x 0.9mm

ASET SERIES



OUTLINE DRAWING:

Top View Dimensions:
 Pin spacing: 0.098 ± 0.004 (2.5 ± 0.1)
 Pin width: 0.126 ± 0.004 (3.2 ± 0.1)
 Pin height: 0.043 ± 0.004 (0.9 ± 0.10)

Bottom View Dimensions:
 Pin spacing: 0.118 (3.0)
 Pin width: 0.02 (0.5)
 Pin height: 0.028 (0.7)
 Pin height: 0.09 (2.3)

Bottom view

Recommended land pattern

Land Pattern Dimensions:
 Pad width: 0.063 (1.6)
 Pad height: 0.051 (1.3)
 Pad spacing: 0.040 (1.0)
 Pad height: 0.031 (0.8)

0.01µF

Resist layer is required on the path for the by-pass capacitor.

Note: It is recommended to use an approximately 0.01µF bypass capacitor between PIN 3 and 6.

PIN	FUNCTION
1	CE
2	N.C.
3	GND
4	Output
5	N.C.
6	Vdd

Dimensions: Inches (mm)

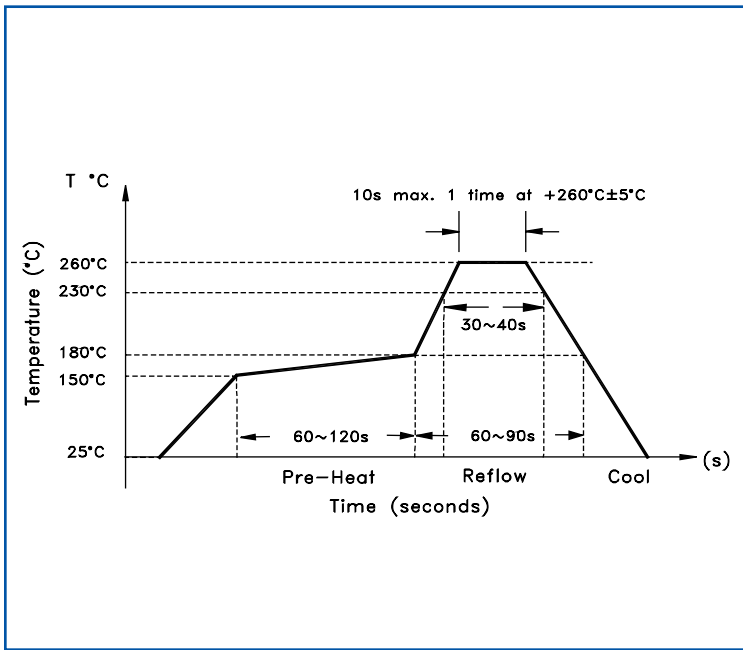
TAPE & REEL: T= tape and reel (1,000 pcs/reel)

REFLOW PROFILE

Dimensions: mm

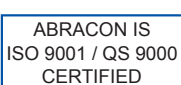
FEEDING (PULL) DIRECTION →

Dimensions:
 0.25 ± 0.05, 1.75 ± 0.1, 2.0 ± 0.06, 4.0 ± 0.1, 3.5 ± 0.5, 8.0 ± 0.2, 1.25 ± 0.1, 3.6 ± 0.1, 5° MAX, PIN 1, 4.0 ± 0.1, 2.9 ± 0.1, 9.5 ± 0.5, 1.6 ± 0.2, 120°, 2 ± 0.5, 13.0 ± 0.5, 21 ± 0.8, 60, 178 ± 1



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

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.



Visit www.abracon.com for Terms & Conditions of Sale **Revised: 11.01.09**
 30332 Esperanza, Rancho Santa Margarita, California 92688
 tel 949-546-8000 | fax 949-546-8001 | www.abracon.com

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for [abracon](#) manufacturer:

Other Similar products are found below :

[ACO-1.000MHZ](#) [ABLS-12.000MHZ-B2Y-T](#) [ASGTX-BLANK](#) [ABLNO-122.880MHz](#) [ABLNO-V-96.000MHZ](#) [ABLS-10.240MHZ-B4-T](#)
[ABLS2-3.6864MHZ-D4Y-T](#) [ABLS-30.000MHZ-L4QF-T](#) [ACHL-18.432MHZ-EK](#) [AOCJY2-100.000MHz-F](#) [ARRSN5-868.000MHz](#)
[ASEMPLP- ADAPTER-KIT](#) [ASFLMPLV- ADAPTER-KIT](#) [ASGTX-P-1.000GHz-1](#) [AST3TQ-T-24.576MHz-50-C](#) [ASTMLPD-24.000MHz-](#)
[LJ-E-T](#) [ABLJO-V-150.000MHz](#) [ABM2-16.000MHZ-D4Y-T](#) [ABM8G-12.000MHZ-B4Y-T3](#) [AIRD-06-101K](#) [AOCJY3-40.000MHZ](#)
[AOCJY6-10.000MHz-1](#) [ASG-C-V-A-50.000MHz](#) [ASG-D-V-A-500.000MHz](#) [ASHEK2-32.768KHZ-LT](#) [AXS-5032-04-12](#) [AIML-0805-470K-](#)
[T](#) [ARJ-150A](#) [AOCJY3A-10.000MHZ-E](#) [ASFL1-50.000MHZ-EK-T](#) [ASVTX-09-16.000MHZ-T](#) [AOCTQ5-X-10.000MHz-M10-SW](#)
[AMPMAFB-19.2000T](#) [ABL-10.000MHZ-D-T](#) [ABM3B-27.120MHZ-10-D2H-T](#) [EP1400SJETTSC-11.0592M](#) [EP1400SJETTSC-2.000M](#)
[EHH1100TS-13.560M](#) [ABL-16.384MHZ-B2](#) [ABLJO-V-155.520MHZ](#) [ABM3B-26.000MHZ-10-D-1-G-T](#) [AIRD-01-680K](#) [AOCJY-](#)
[10.000MHz](#) [AOCJY2-10.000MHz](#) [AOCJY3-40.000MHZ-E](#) [AOCJY-38.880MHZ-F](#) [AOCJY3A-100.000MHz-E](#) [APAMS-119](#) [ASG2-D-X-A-](#)
[1000.000MHz](#) [ASG-D-X-A-200.000MHz](#)