

TIGHT STABILITY INDUSTRIAL GRADE CRYSTAL OSCILLATOR

ASET SERIES



RoHS
Compliant



3.2 x 2.5 x 0.9mm

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	
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*:	$\pm 15\text{ppm}$ (see options)
Supply voltage (Vdd):	3.0Vdc $\pm 10\%$ (see options)
Supply Current (Idd):	7mA max.
Stand-by Current	10 μA 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 (@ 10 kHz 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



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Technical drawing of a mechanical part showing three views: front, top, and bottom. The dimensions are given in millimeters with tolerances.

Front View:

- Overall width: 6 ± 0.1 mm
- Overall height: 0.098 ± 0.004 mm (2.5 ± 0.1 mm)
- Central hole diameter: 0.126 ± 0.004 mm (3.2 ± 0.1 mm)
- Small circular feature diameter: 0.043 ± 0.004 mm (0.9 ± 0.10 mm)

Top View:

- Overall width: 0.118 mm (3.0 mm)
- Overall height: 0.09 mm (2.3 mm)
- Distance from left edge to center of hole: 0.02 mm (0.5 mm)
- Distance from right edge to center of hole: 0.028 mm (0.7 mm)

Bottom View:

- Overall width: 0.118 mm (3.0 mm)
- Overall height: 0.09 mm (2.3 mm)
- Distance from left edge to center of hole: 0.02 mm (0.5 mm)
- Distance from right edge to center of hole: 0.028 mm (0.7 mm)

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

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

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

Dimensions: mm

FEEDING (PULL) DIRECTION →

0.25±0.05

1.75±0.1

2.0±0.06

4.0±0.1

3.5±0.5

8.0±0.2

5° MAX

3.6±0.1

1.25±0.1

Ø1.5

PIN 1

Ø1.0

4.0±0.1

2.9±0.1

9.5±0.5

1.6±0.2

Ø13.0±0.5

2±0.5

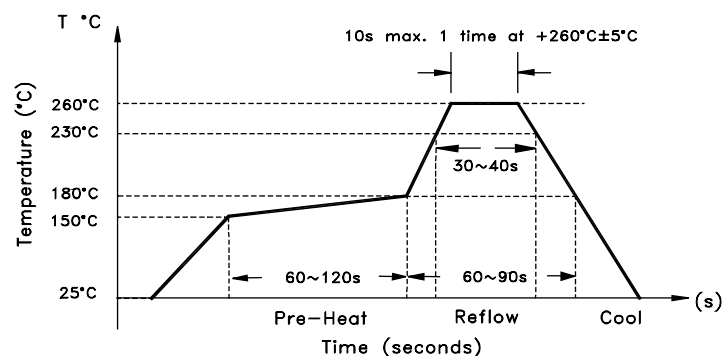
120°

Ø21±0.8

Ø60

Ø178±1

Detailed description: This technical drawing shows a 4-pin connector. The top view includes dimensions for the overall length (8.0±0.2 mm), pin pitch (2.0±0.06 mm), and individual pin dimensions (Ø1.5 mm diameter, 4.0±0.1 mm spacing). A side view shows the connector's profile with a 5° MAX angle and a 3.6±0.1 mm height. A bottom view shows the circular base with a Ø21±0.8 mm diameter and a 120° angle. A cross-section view shows the internal structure with a Ø13.0±0.5 mm diameter and a 2±0.5 mm thickness. A top view of the connector head shows a Ø178±1 mm diameter and a 9.5±0.5 mm height. A side view of the connector head shows a Ø60 mm diameter and a 1.6±0.2 mm thickness. The drawing also indicates the FEEDING (PULL) DIRECTION with an arrow pointing to the right.



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

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