

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
- 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:	0.500MHz to 45.000MHz
Standard Frequencies:	10, 13, 20, 26, 25, 31, 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):	10mA 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
Output load:	15pF max.
Output Voltage:	VOH = 0.9*Vdd min. VOL = 0.1*Vdd max.
Aging per year:	± 2 ppm @25°C
Phase Noise (@ 10kHz offset):	-145dBc/Hz Typ. (1kHz offset)
Jitter:	1 σ 3ps typ.

OPTIONS AND PART IDENTIFICATION:

(Left blank if standard)

ASET - Frequency - - -

P/N and Vdd (V)	
Blank	3.0 $\pm 10\%$
A	2.7 $\pm 10\%$
B	3.3 $\pm 10\%$
C	2.8 $\pm 10\%$

Freq. Stability	
Blank	± 15 ppm
Y	± 10 ppm

Packaging	
Blank	Bulk
T	Tape and Reel



TIGHT STABILITY INDUSTRIAL GRADE CRYSTAL OSCILLATOR

ASET SERIES

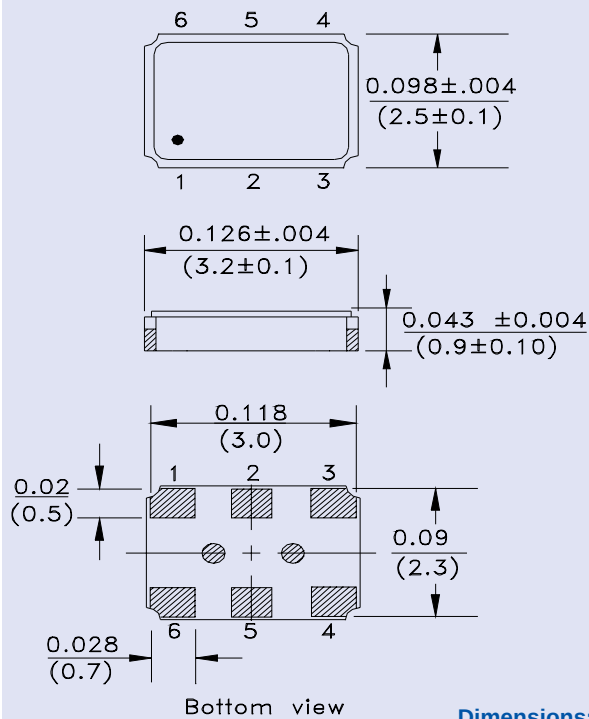


RoHS
Compliant



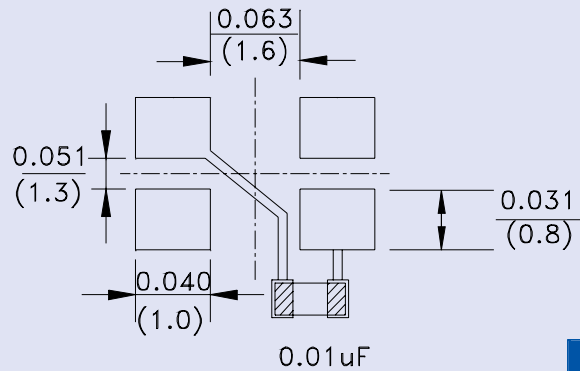
3.2 x 2.5 x 0.9mm

OUTLINE DRAWING:



Dimensions: Inches (mm)

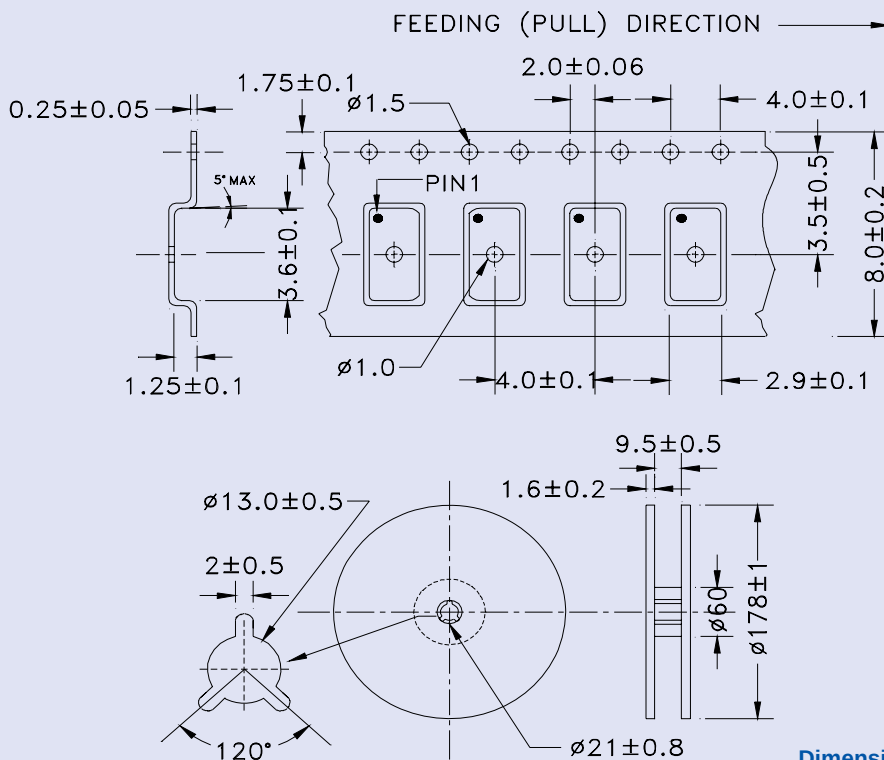
Recommended land pattern



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

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

TAPE & REEL:



Dimensions: mm

ABRACON IS
ISO 9001 / QS 9000
CERTIFIED



ABRACON
CORPORATION

Visit www.abracon.com for Terms & Conditions of Sale **Revised: 03.26.08**
30332 Esperanza, Rancho Santa Margarita, California 92688
tel 949-546-8000 | fax 949-546-8001 | www.abracon.com