TIGHT STABILITY INDUSTRIAL GRADE CRYSTAL OSCILLATOR

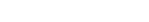




3.2 x 2.5 x 0.9mm

ASET

ASET SERIES



FEATURES:

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

> APPLICATIONS:

• Home networking by AC socket

Compliant

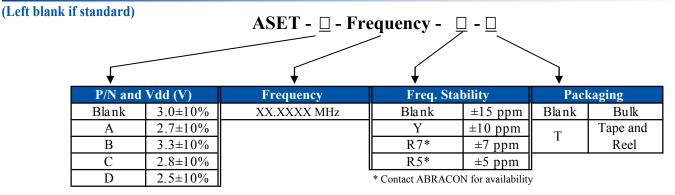
- Wireless LAN
- Mobile communications
- PLC modem
- WiMax

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*:	±15ppm (see options)
Suppl y voltage (Vdd):	3.0 Vdc $\pm 10\%$ (see options)
Suppl y 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
Pha se Noise (@ 10 kHz offset):	-143dBc/Hz Typ.
Jitter:	1σ 3ps typ.

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

> OPTIONS AND PART IDENTIFICATION:







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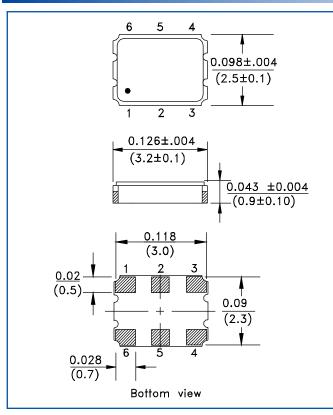




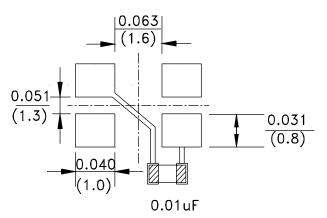
3.2 x 2.5 x 0.9mm

ASET

OUTLINE DRAWING:



Recommended land pattern



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

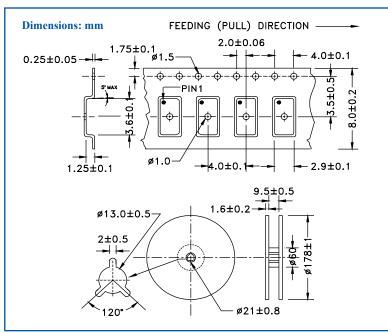
Note: It is recommended to use an approximately 0.01uF bypass capacitor between PIN 3 and 6.

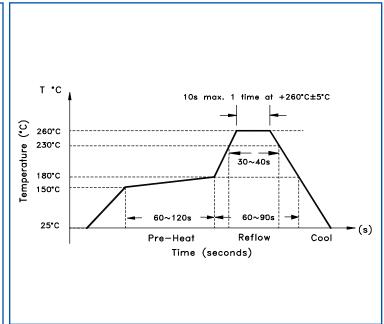
PIN	FUNCTION
1	OE
2	N.C.
3	GND
4	Output
5	N.C.
6	Vdd

Dimensions: Inches (mm)

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

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**

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