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 (±10ppm / -40 to +85℃)
- 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	°C	
Storage Temperature	-40		+85	°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	uA	
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" (VIH≥0.7*Vdd) or Open: Oscillation "0" (VIH<0.3*Vdd) : Hi Z				
Phase Noise (@10kHz offset)		-143		dBc/Hz	
Aging@+25°C	-2		+2	ppm	First year
	-7		+7		10 years

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

OPTIONS AND PART IDENTIFICATION:

(Left blank if standard)

ASET-☐-☐☐☐☐☐MHz-☐-☐

Supply Voltage
Blank: 3.0±10%
A: 2.7±10%
B: 3.3±10%
C: 2.8±10%
D: 2.5±10%

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

Overall Freq. Stability
Blank: ±15ppm
Y: ±10ppm
R7*: ±7ppm
R5*: ±5ppm

Packaging
Blank: Bulk
T: Tape & Reel

*Contact Abracon for availability

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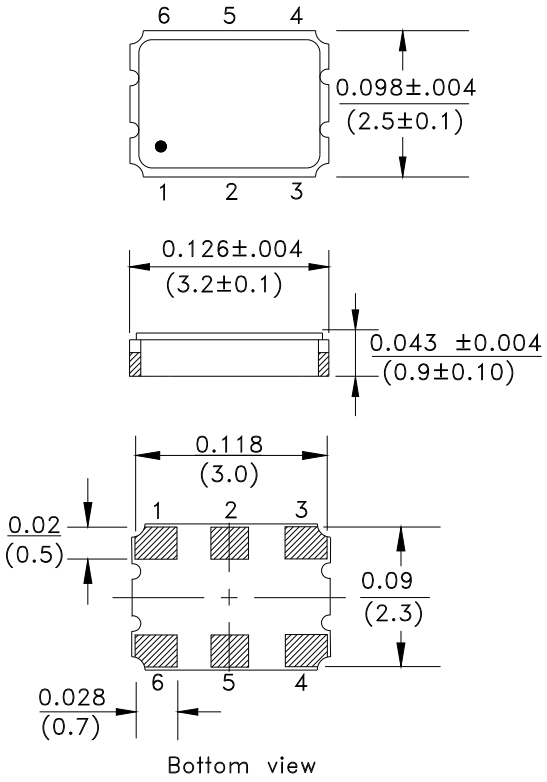
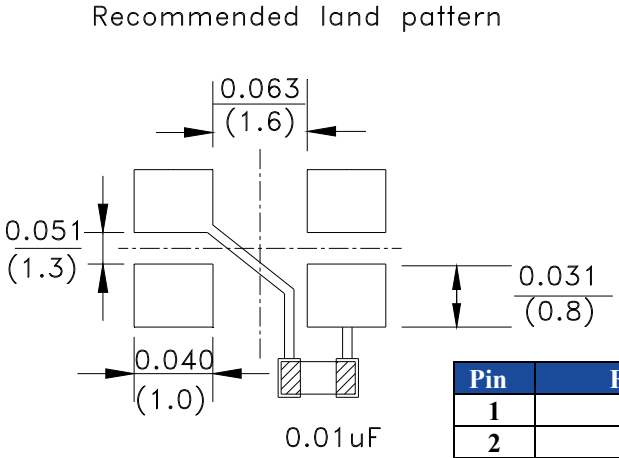
OUTLINE DRAWING:





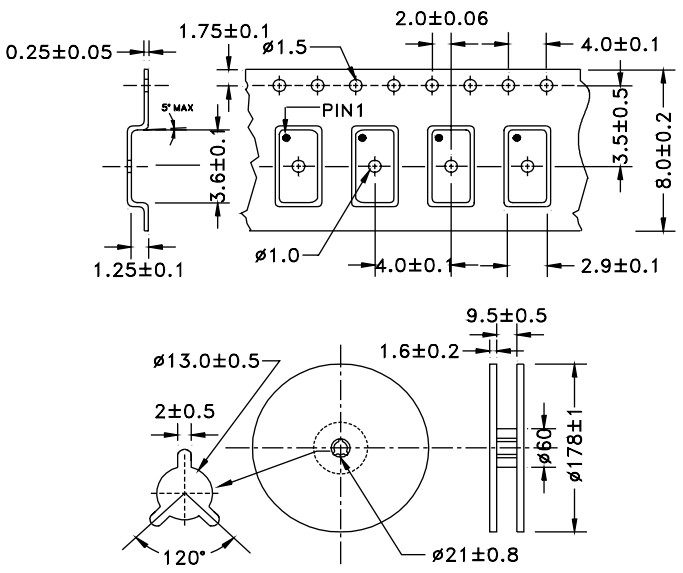
Pin	Function
1	OE
2	NC
3	GND
4	Output
5	NC
6	Vdd

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

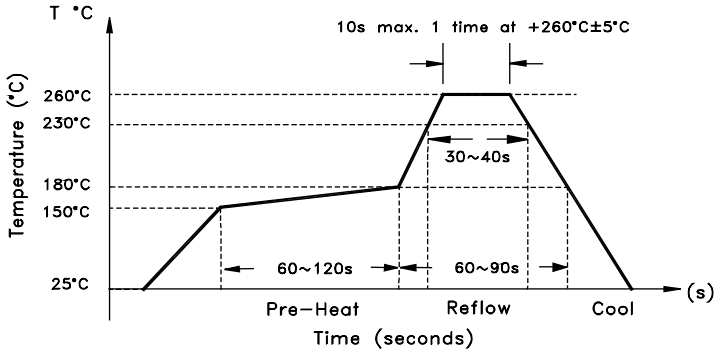
Dimensions: Inches (mm)

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**