

Engineering/Process Change Notice

ECN/PCN No.: 3806

For Manufacturer									
Product Description:	Abracon Part Numbe	r / Part Series:	☐ Documentation only	⊠ Series					
Tight Stability SMD Clock Oscillator	ASET Se	eries	□ ECN	☐ Part Number					
			⊠ EOL						
Affected Revision:	New Revision:		Application:	☐ Safety					
L	EOI	L		Non-Safety					
Prior to Change:	<u> </u>								
ACTIVE									
https://abracon.com/Oscillators/ASET.pdf									
After Change:									
EOL									
Cause/Reason for Change:									
Production will be discontinued due to material constraint issues.									
Change Plan									
Effective Date:	Additional Remarks:								
4/27/21									
Change Declaration:									
Issued Date:	Issued By:		Issued Department:						
4/27/21	Stephanie Lopez		Engineering						
Approval:	Approval:		Approval:						
Thomas Culhane	Reuben Quintanilla		Ying Huang						
Engineering Director	Quality Director Purchasing Director								
For Abracon EOL only									
Last Time Buy (if applicable):	Alternate Part Number / Part Series:								
None			None						
Additional Approval:	Additional Approval:		Additional Approval:						
Customer Approval (If Applicable)									
Qualification Status:									
	\square Approved \square								
Note: It is considered approved if there is n	o feedback from the cus	stomer 1 month afte	r ECN/PCN is released.						
ustomer Part Number: Customer Project:									
Company Name:	Company Representative:		Representative Signature:						
Customer Remarks:									

Form #7020 | Rev. G | Effective: 02/22/2021 |











TIGHT STABILITY INDUSTRIAL GRADE CRYSTAL OSCILLATOR







RoHS/RoHS II compliant



 $\underline{ \ \, Moisture \ Sensitivity \ Level \ (MSL) - This \ product \ is \ Hermetically \ Sealed \ and \ not \ Moisture \ Sensitive - MSL = N/A: \ Not \ Applicable \ not \ Moisture \ Sensitive - MSL = N/A: \ Not \ Applicable \ not \ Moisture \ Not \ Not \ Applicable \ not \ Not$

> 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:

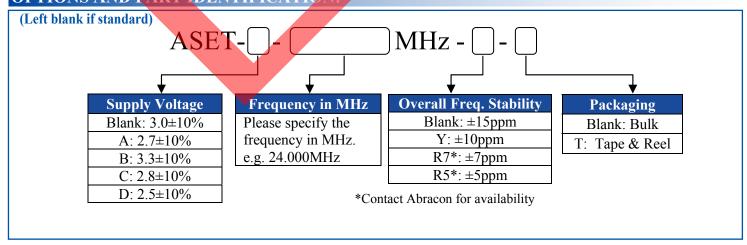
- Home networking by AC socket
- Wireless LAN
- Mobile communications
- PLC modem
- WiMax

STANDARD SPECIFICATIONS:

Parameters	Minimum	Typical	Maximum	Units	Notes
Frequency Range	4		54	MHz	
Standard Frequencies	5, 10, 12, 1	6, 20, 24, 26, 27	7, 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	nnm	First year
	-7		+7	ppm	10 years

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

> OPTIONS AND PART IDENTIFICATION







TIGHT STABILITY INDUSTRIAL GRADE CRYSTAL OSCILLATOR

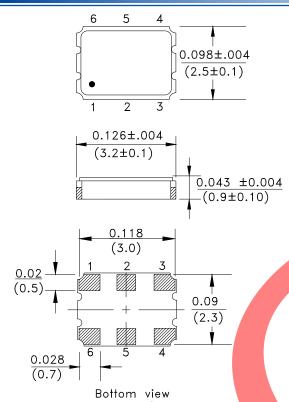
ASET SERIES





3.2 x 2.5 x 1.2m m

OUTLINE DRAWING:



Recommended land pattern 0.051 (1.3)0.031 (0.8)Pin **Function** OE 0.01uF 2 NC 3 **GND** 4 Output 5 NC Vdd

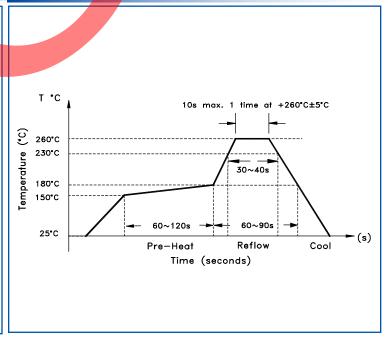
Note: Recommend using an approximately 0.01uF bypass capacitor between PIN 3 and 6.

Dimensions: Inches (mm)

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

Dimensions: mm FEEDING (PULL) DIRECTION 2.0±0.06 0.25±0.05 91.5 PIN1 PIN1 91.0 9.5±0.5 1.6±0.2 921±0.8

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**

ATTENTION: Abracon Corporation's products are COTS – Commercial-Off-The-Shelf products; suitable for Commercial, Industrial and, where designated, Automotive Applications. Abracon's products are not specifically designed for Military, Aviation, Aerospace, Life-dependant Medical applications or any application requiring high reliability where component failure could result in loss of life and/or property. For applications requiring high reliability and/or presenting an extreme operating environment, written consent and authorization from Abracon Corporation is required. Please contact Abracon Corporation for more information.



