

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:

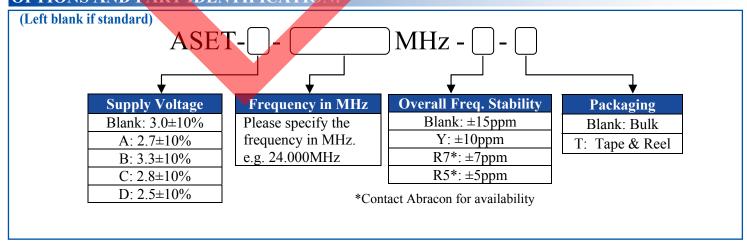
- Home networking by AC socket
- Wireless LAN
- Mobile communications
- PLC modem
- WiMax

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

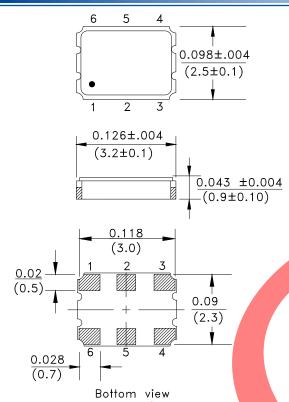
ASET SERIES





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

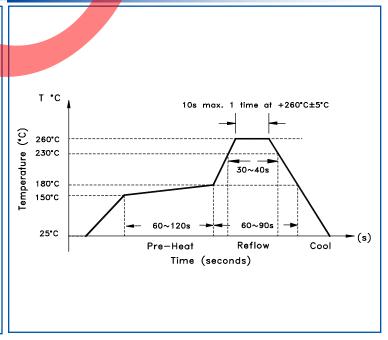
Note: Recommend using an approximately 0.01uF bypass capacitor between PIN 3 and 6.

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.





Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

ABRACON:

```
ASET-10.000MHZ-Y-T ASET-11.0592MHZ-Y-T ASET-12.000MHZ-Y-T ASET-12.288MHZ-Y-T ASET-16.000MHZ-Y-T ASET-18.432MHZ-Y-T ASET-19.200MHZ-Y-T ASET-20.000MHZ-Y-T ASET-24.000MHZ-Y-T ASET-25.000MHZ-Y-T ASET-26.000MHZ-Y-T ASET-27.000MHZ-Y-T ASET-30.000MHZ-Y-T ASET-31.250MHZ-Y-T ASET-32.000MHZ-Y-T ASET-32.000MHZ-Y-T ASET-32.000MHZ-Y-T ASET-44.000MHZ-Y-T ASET-44.545MHZ-Y-T ASET-5.000MHZ-Y-T ASET-50.000MHZ-Y-T ASET-7.3728MHZ-Y-T ASET-8.000MHZ-Y-T ASET-9.000MHZ-Y-T ASET-C-40.000MHZ-Y-T
```