

ECN/PCN No.: 3807

For Manufacturer			
Product Description: Tight Stability SMD Clock Oscillator	Abrakon Part Number / Part Series: ASFLT Series	☐ Documentation only ☐ ECN ☒ EOL	☒ Series ☐ Part Number
Affected Revision: K	New Revision: EOL	Application:	☐ Safety ☒ Non-Safety
Prior to Change: ACTIVE https://abracon.com/Oscillators/ASFLT.pdf			
After Change: EOL			
Cause/Reason for Change: Production will be discontinued due to material constraint issues.			
Change Plan			
Effective Date: 4/27/21	Additional Remarks:		
Change Declaration:			
Issued Date: 4/27/21	Issued By: Stephanie Lopez	Issued Department: Engineering	
Approval: Thomas Culhane Engineering Director	Approval: Reuben Quintanilla Quality Director	Approval: Ying Huang Purchasing Director	
For Abracon EOL only			
Last Time Buy (if applicable): None	Alternate Part Number / Part Series: None		
Additional Approval:	Additional Approval:	Additional Approval:	
Customer Approval (If Applicable)			
Qualification Status: ☐ Approved ☐ Not accepted <i>Note: It is considered approved if there is no feedback from the customer 1 month after ECN/PCN is released.</i>			
Customer Part Number:		Customer Project:	
Company Name:	Company Representative:	Representative Signature:	
Customer Remarks:			

TIGHT STABILITY INDUSTRIAL GRADE CRYSTAL OSCILLATOR

ASFLT SERIES



ESD Sensitive



RoHS/RoHS II Compliant



5.0 x 3.2 x 1.05mm

**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
- Low phase noise and jitter
- Industrial grade tight temperature stability ($\pm 5.0\text{ppm} / -40$ to $+85^\circ\text{C}$)
- 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	Minimum	Typical	Maximum	Units	Notes
Frequency Range	4		54	MHz	
Standard Frequencies	5, 10, 12, 16, 16.384, 19.44, 20, 24, 26, 32, 40, 44			MHz	
Operating Temperature	-40		+85	$^\circ\text{C}$	
Storage Temperature	-40		+85	$^\circ\text{C}$	
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	μA	
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 (Stand-by)	Pin #1: "1" ($V_{IH} \geq 0.7*V_{dd}$) or Open: Oscillation Pin #1: "0" ($V_{IL} < 0.3*V_{dd}$) (Hi-Z)				
Phase Noise		-143		dBc/Hz	@10kHz offset
Aging@+25 $^\circ\text{C}$	-2		+2	ppm	First year
	-7		+7		10 years

OPTIONS AND PART IDENTIFICATION:

(Left blank if standard)

ASFLT - - MHz - -

Supply Voltage
Blank: 3.0 $\pm$ 10%
A: 2.7 $\pm$ 10%
B: 3.3 $\pm$ 10%
C: 2.8 $\pm$ 10%
D: 2.5 $\pm$ 10%

Frequency in MHz
Please specify the frequency in MHz. e.g. 16.384MHz

Overall Freq. Stability
Blank: $\pm 15\text{ppm}$
Y: $\pm 10\text{ppm}$
R7*: $\pm 7\text{ppm}$
R5*: $\pm 5\text{ppm}$

Packaging
Blank: Bulk
T: Tape & Reel

*Contact Abracon for availability



ASFLT



5.0 x 3.2 x 1.05mm