

ECN/PCN No.: 3807

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

# TIGHT STABILITY INDUSTRIAL GRADE CRYSTAL OSCILLATOR



5.0 x 3.2 x 1.05mm

ASFLT 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
- 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	$\mu\text{A}$	
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		
Start-up Time		0.2	3.0	ms	
RMS Jitter		3.0		ps	
Tri-state function (Stand-by)	Pin #1: "1" (VIH $\geq$ 0.7*Vdd) or Open: Oscillation Pin #1: "0" (VIL $<$ 0.3*Vdd): (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



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ASFLT SERIES

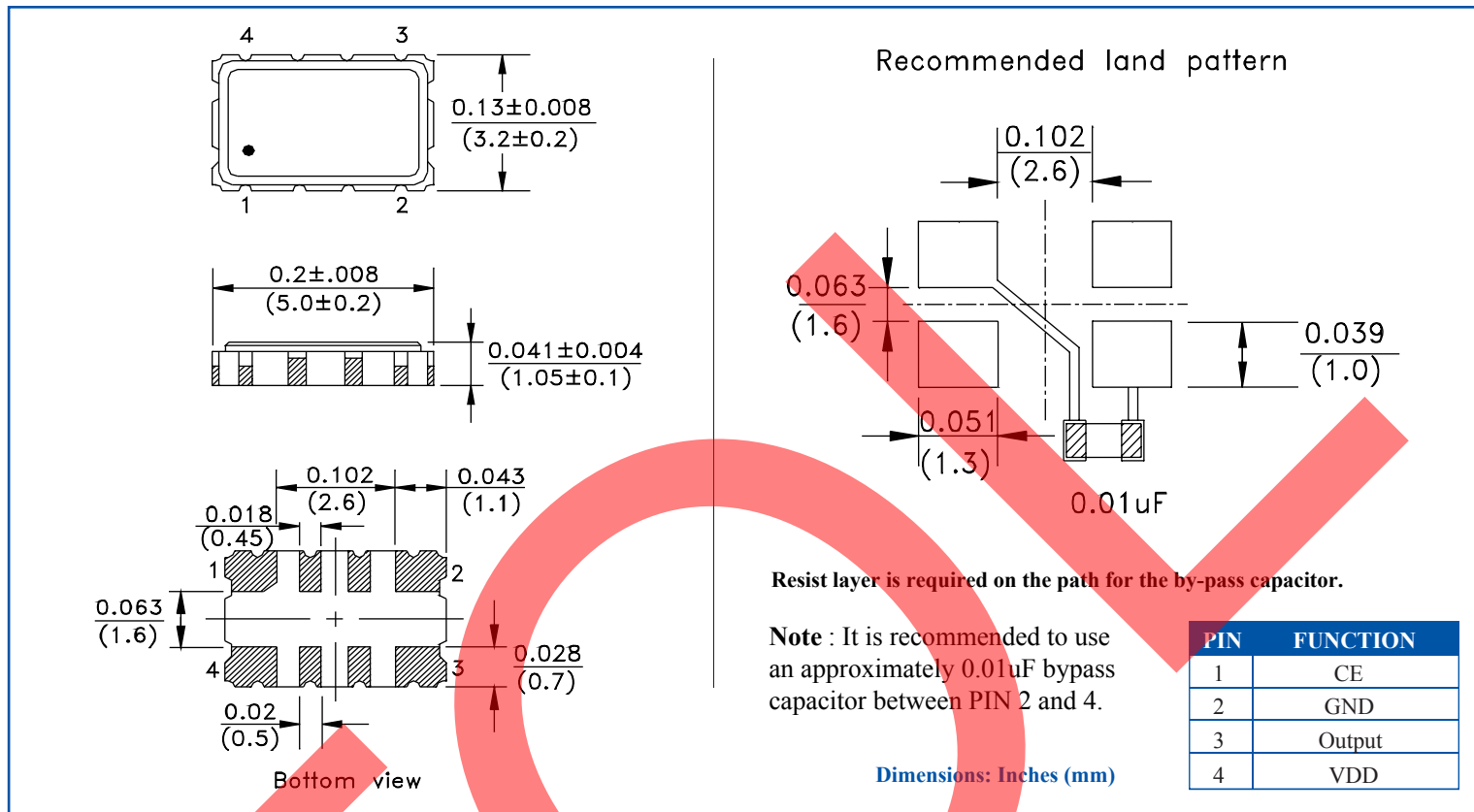


ESD Sensitive



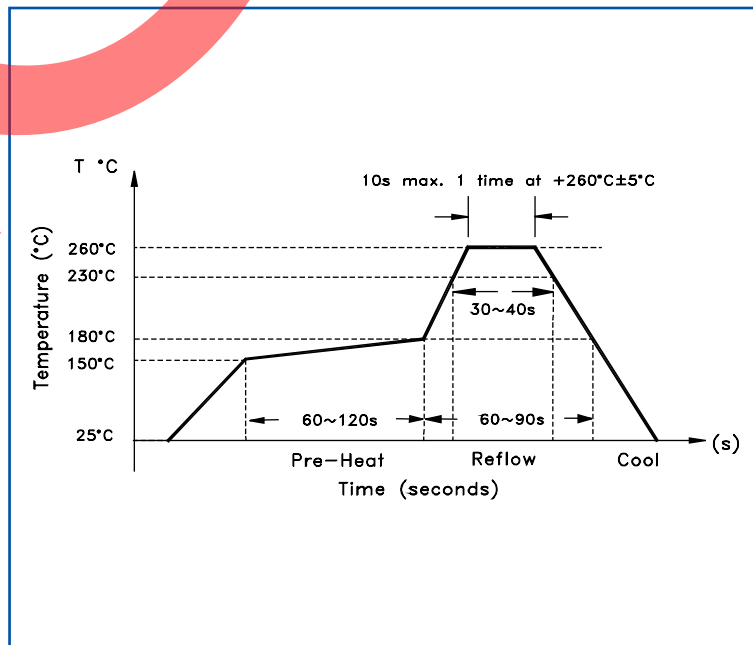
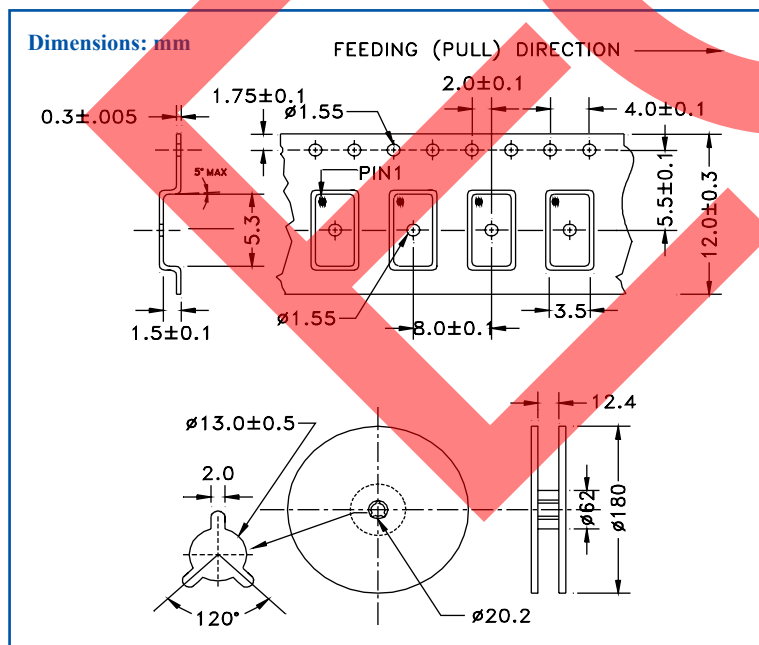
RoHS/RoHS II Compliant

## OUTLINE DRAWING:



## TAPE & REEL: (1,000 pcs/reel)

## REFLOW PROFILE:



**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.

ABRACON IS  
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