

TIGHT STABILITY INDUSTRIAL GRADE CRYSTAL OSCILLATOR



5.0 x 3.2 x 1.05mm

ASFLT SERIES



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

ABRACON P/N:	ASFLT Series
Frequency:	4.000MHz to 54.000MHz
Standard Frequencies:	5, 10, 12, 16, 16.384, 19.44, 20, 24, 26, 32, 40, 44MHz
Output level:	CMOS
Operating temperature:	-40°C to +85°C
Storage temperature:	-40°C to +85°C
Overall Frequency Stability*:	$\pm 15\text{ppm}$ (see option)
Supply voltage (Vdd):	3.0Vdc $\pm 10\%$ (see option)
Supply current (Idd):	7mA max.
Stand-by current:	10 μA max.
Symmetry:	45/55 % @ 50% Vdd
Rise and Fall Times(Tr/Tf):	5ns max. / 10%Vdd-90%Vdd
Start-up time:	0.2ms typical, 3ms max.
Output load:	15pF max.
Output Voltage:	VOH = 0.9*Vdd min. VOL = 0.1*Vdd max.
Aging @ 25°C:	± 2 ppm/ first year, ± 7 ppm/ 10 years
Phase Noise (@ 10kHz offset):	-143dBc/Hz Typ.
Jitter:	1 σ 3ps typ.

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

OPTIONS AND PART IDENTIFICATION:

(Left blank if standard)

ASFLT - □ - Frequency - □□ - □

P/N and Vdd (V)		Frequency	Freq. Stability		Packaging	
Blank	3.0 $\pm 10\%$	XX.XXXX MHz	Blank	± 15 ppm	Blank	Bulk
A	2.7 $\pm 10\%$		Y	± 10 ppm		
B	3.3 $\pm 10\%$		R7*	± 7 ppm		
C	2.8 $\pm 10\%$		R5*	± 5 ppm		
D	2.5 $\pm 10\%$					

* Contact ABRACON for availability

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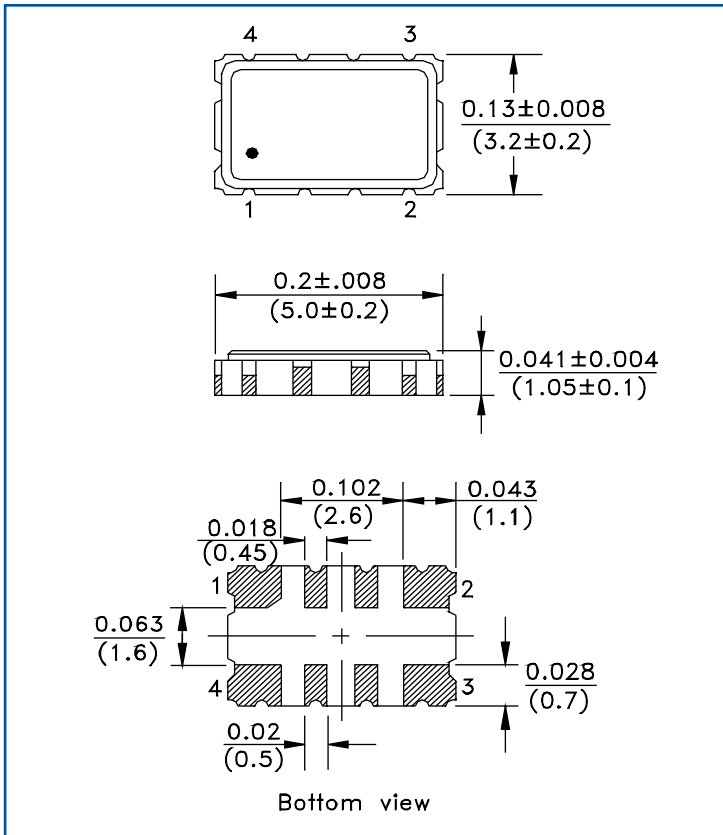


5.0 x 3.2 x 1.05mm

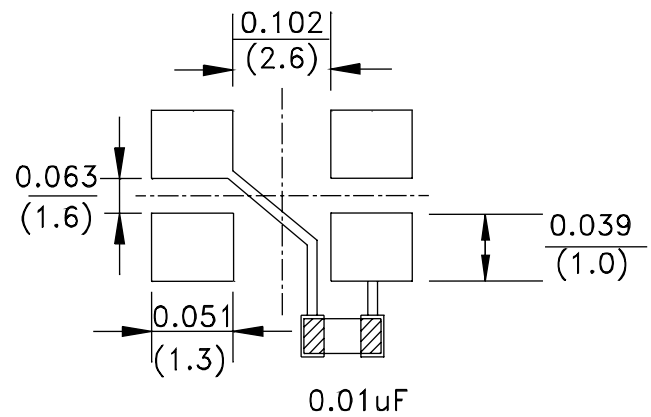
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OUTLINE DRAWING:



Recommended land pattern



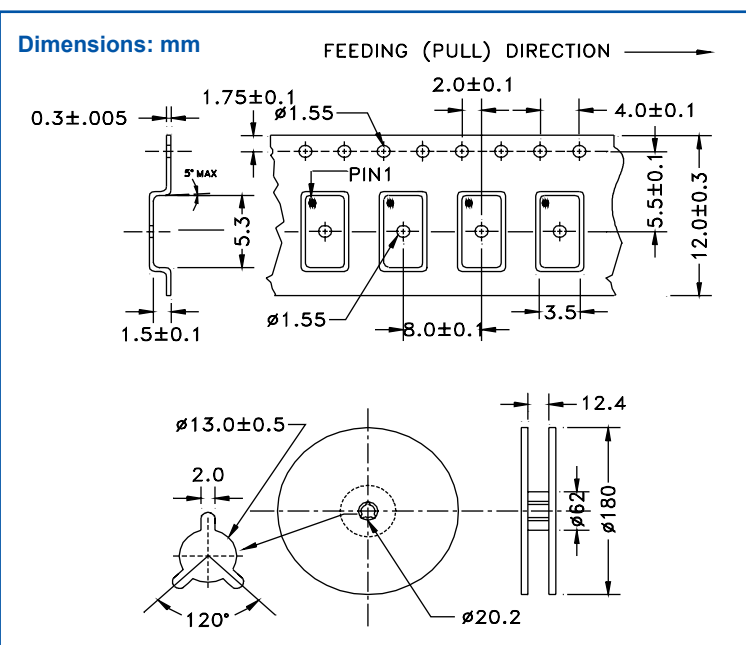
Resist layer is required on the path for the by-pass capacitor.

Note: It is recommended to use an approximately 0.01uF bypass capacitor between PIN 2 and 4.

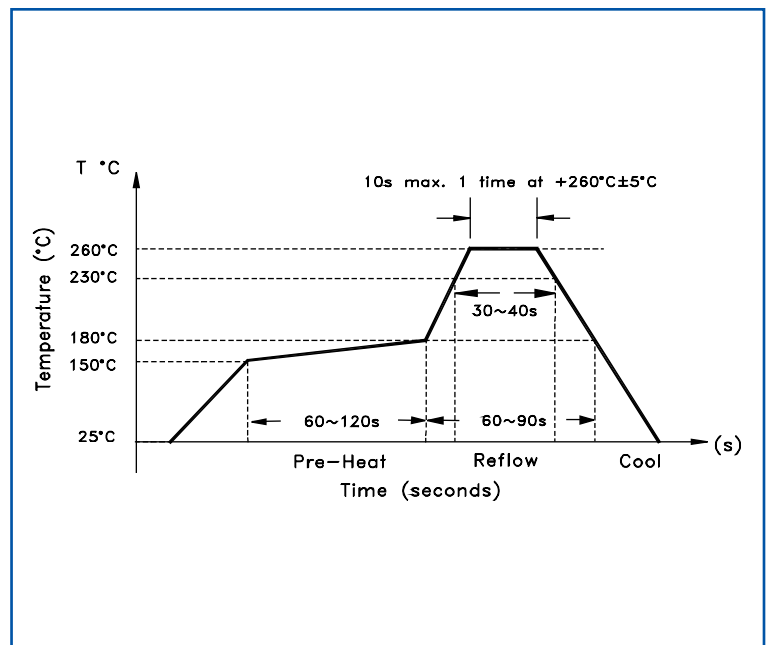
PIN	FUNCTION
1	CE
2	GND
3	Output
4	VDD

Dimensions: Inches (mm)

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



REFLOW PROFILE:



NOTE: Abracon manufactured products are intended for general commercial and industrial use. For applications requiring high reliability and/or presenting extreme operating environment, written consent & authorization from Abracon is required.

ABRACON IS
ISO 9001 / QS 9000
CERTIFIED



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