3.3Vdc HCMOS SMD VOLTAGE CONTROLLED CRYSTAL OSCILLATOR

ASFLV SERIES

5.0 x 3.2 x 1.2mm

Pb RoHS Compliant

FEATURES:

- Pb-Free/RoHS Compliant
- Smallest industry package
- Tri state function
- Suitable for high density SMT
- IR reflow capable
- Hermetically sealed

APPLICATIONS:

- CCD clock for VTR camera
- Computers and peripherals
- Portable MP3 players and games

STANDARD SPECIFICATIONS:

PARAMETERS	
ABRACON P/N:	ASFLV Series
Frequency range:	1.500000MHz - 50.000000MHz
Operation mode:	Fundamental
Operating temperature:	-10°C to + 70°C (see options)
Storage temperature:	-50°C to +100°C
Overall Frequency Stablilty:	± 100ppm max. (see options)
Supply Voltage (Vdd):	3.3 V ± 10%
Current Consumption (Idd):	8mA max for 1.5 ~ 19.9MHz
	15mA max for 20.0 ~ 40.0MHz
	22mA max for 40.1 ~ 50.0MHz
Symmetry (Duty Cycle):	50% ± 10% (see options)
Rise and Fall Times:	5nS max.
Output Load:	15pF (HCMOS)
Output Voltage:	VOH = 0.9*Vdd min.
	VOL = 0.1*Vdd max.
Voltage Control:	0.3 to 3.0V
Transfer Function:	Positive
Linearity:	<±150 ppm freq. deviation: 10% max.; 6% typical
	>±150 ppm freq. deviation: 20% max.; 15% typical
Start-up-time:	5mS max for 1.5 ~ 32MHz
	10mS max for f > 32MHz
Aging per year:	± 5ppm @25°C
Phase Jitter RMS:	10pS typical
Pullability:	± 50ppm (see options)

OPTIONS AND PART IDENTIFICATION:

(Left blank if standard)

ASFLV - Frequency - □ - □ - □ - □ - □

Frequency
XX.XXX MHz

Overall Freq. Stability	
R	± 25 ppm
C	± 50 ppm

Packaging	
Blank	Bulk
T	Tape and Reel

Operating Temp.	
Blank	STD
L	-40°C to 85°C

Symmetry	
Blank	STD
S	50% ± 5%

Pullability	
N100	± 100ppm
N150	± 150ppm

30332 Esperanza, Rancho Santa Margarita, California 92688
tel 949-546-8000 | fax 949-546-8001 | www.abracon.com

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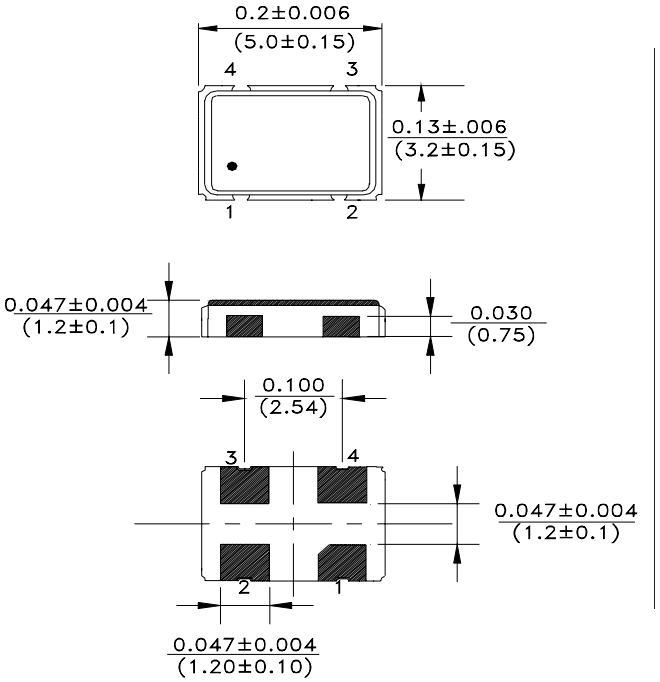
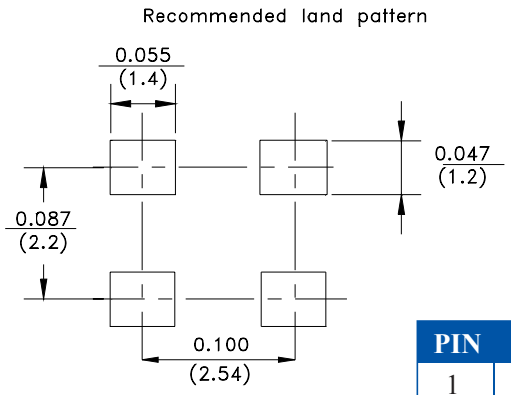
OUTLINE DRAWING:



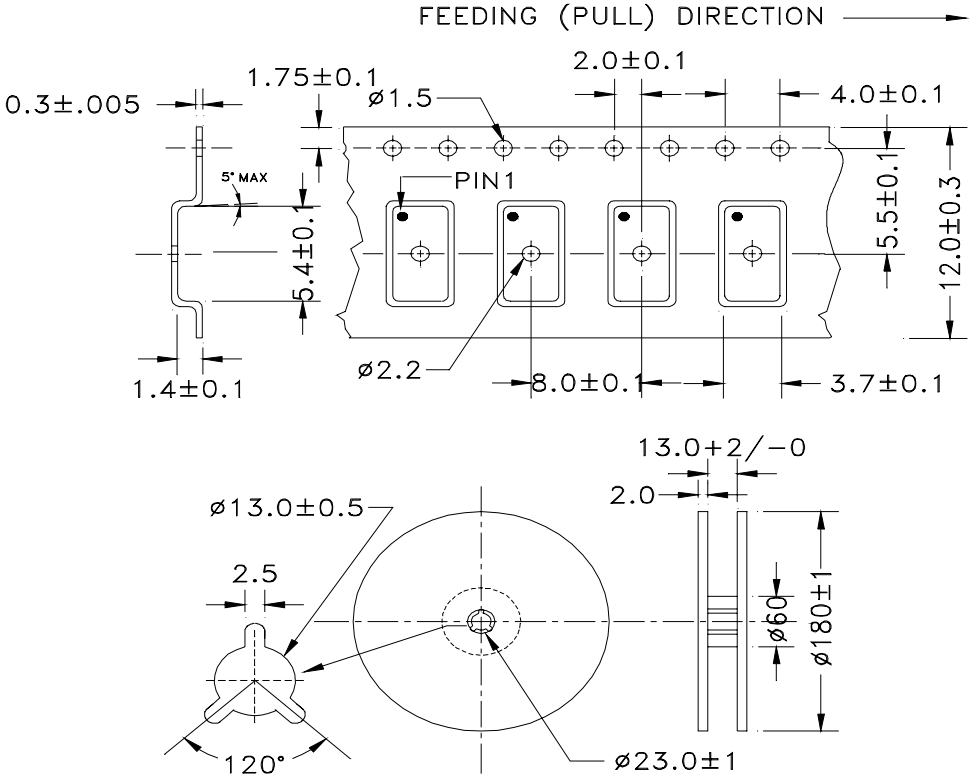
Dimensions: Inches (mm)



PIN	FUNCTION
1	Voltage Control
2	Ground
3	Output
4	VDD

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

TAPE & REEL:



Dimensions: mm

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