

# 1.8V LVCMOS COMPATIBLE SMD CRYSTAL CLOCK OSCILLATOR



5.0 x 3.2 x 1.6 mm

ASFL3



## FEATURES:

- Compact and low in height
- Low current consumption
- Tri state function
- Suitable for high density SMT
- Tight stability option
- Seam sealed package
- Reflow capable

## APPLICATIONS:

- CCD clock for VTR camera
- Equipment connected to PC or PC cards
- Thin equipment
- Wireless communication

## STANDARD SPECIFICATIONS:

### PARAMETERS

ABRACON P/N:	ASFL3
Frequency:	1.544 MHz to 70 MHz
Operating temperature:	-10°C to +70°C (see option)
Storage temperature:	- 55°C to + 125°C
Overall Frequency Stability:	±100 ppm max. (see option)
Supply voltage (Vdd):	1.8 Vdc ± 10%
Supply Current (Idd):	2 mA max for F < 10MHz 3 mA max for F < 25MHz 4 mA max for F < 40MHz 8 mA max for F ≤ 50MHz 10 mA max for F ≤ 70MHz
Symmetry at 1/2 Vdd:	40/60% @ 1/2Vdd max. (see option)
Rise and Fall Times(Tr/Tf):	6 ns max. for F ≤ 35MHz 3 ns max. for F > 35MHz
Output load:	15pF
Output Voltage:	VOH = 0.9*Vdd min. VOL = 0.1*Vdd max.
Tri State Function:	"1" or open: Oscillation; VIH ≥ 1.6V "0": Output disabled (HI-Z); VIL < 0.8V
Start-up-time:	10 mS max.
Aging per year:	±5 ppm @25°C

## OPTIONS AND PART IDENTIFICATION:

(Left blank if standard)

ASFL3 - Frequency - □ - □ - □ - □

Operating Temp. Range		Overall Frequency Stability		Duty Cycle		Packaging	
I	0°C to +50°C	Y(*)	±10ppm	Blank	40/60% @ 1/2Vdd	T	Tape and Reel 1,000pcs
D	-10°C to +60°C	J(**)	±20ppm				
E	-20°C to +70°C	R	±25ppm	S	45/55% @ 1/2Vdd		
F	-30°C to +70°C	K	±30ppm				
N	-30°C to +85°C	H	±35ppm				
L	-40°C to +85°C	B	±40ppm				
		C	±50ppm				

Contact ABRACON for wider temperature range.

\* Available for 0°C to +50°C and -10°C to +60°C only.

\*\* Contact ABRACON for -40°C to +85°C.

ABRACON IS  
ISO 9001 / QS 9000  
CERTIFIED



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REVISED: 4.26.07

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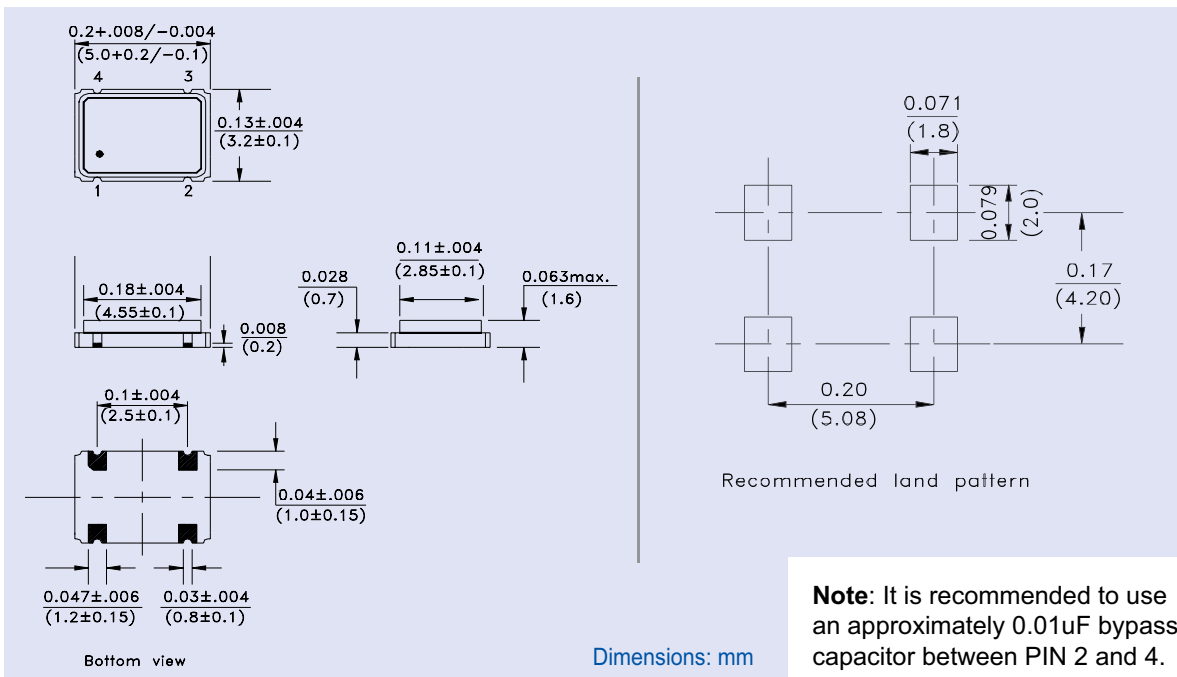


5.0 x 3.2 x 1.6 mm

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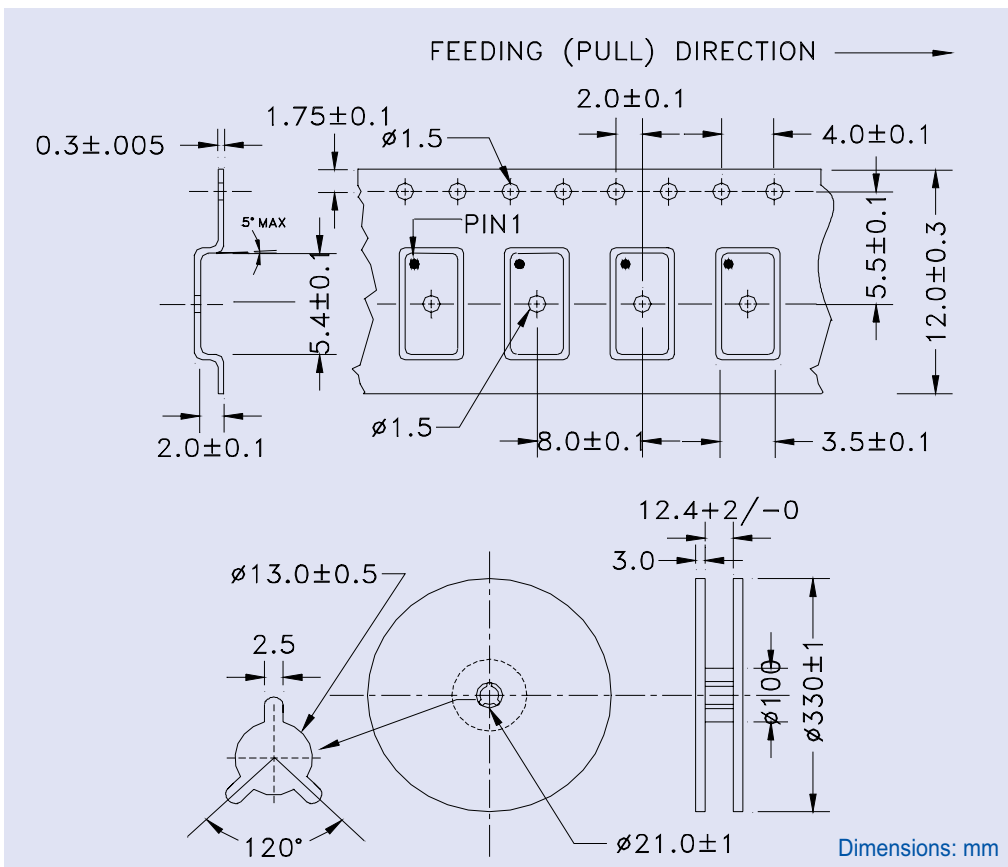
## OUTLINE DRAWING:



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

PIN	FUNCTION
1	Tri-State
2	GND
3	Output
4	VDD

## TAPE & REEL:



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