

# 5.0V CERAMIC SMD LOW PROFILE CRYSTAL CLOCK OSCILLATOR



ASF1

5.0 x 3.2 x 1.1 mm

ASF1



## 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:	ASF1
Frequency:	321 kHz to 125 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):	5.0 Vdc ± 10%
Current Consumption: (Full Load)	15 mA max for 321kHz ~ 30MHz 45 mA max for 30MHz ~ 80MHz 85 mA max for 80MHz ~ 125MHz
Symmetry at 1/2 Vdd:	40/60% max. (see option)
Rise and Fall Times(Tr/Tf):	10 ns max.
Output load:	5TTL max., 50pF max
Output Voltage:	VOH = 0.9*Vdd min. VOL = 0.1*Vdd max.
Tri State:	"1" or open: Oscillation; VIH ≥ 0.7*Vdd "0": Output disabled (HI-Z); VIL < 0.3*Vdd
Start-up-time:	10 mS max.
Aging per year:	±5 ppm @25°C
Phase Jitter RSM:	1pS max. (12k ~ 20MHz)

## OPTIONS AND PART IDENTIFICATION:

(Left blank if standard)

ASF1 - Frequency - □ - □ - □ - □

Operating Temp. Range	
D	-10°C to +60°C
E	-20°C to +70°C
F	-30°C to +70°C
N	-30°C to +85°C
L	-40°C to +85°C

Overall Frequency Stability	
J(*)	±20ppm
R	±25ppm
K	±30ppm
H	±35ppm
B	±40ppm
C	±50ppm

\* Temp option D and E and standard temp. only

Packaging	
T	Tape and Reel 1,000pcs

Symmetry	
S	45/55% @ 1/2Vdd

Please contact ABRACON if parts are intended for life dependent applications.

ABRACON IS  
ISO 9001 / QS 9000  
CERTIFIED



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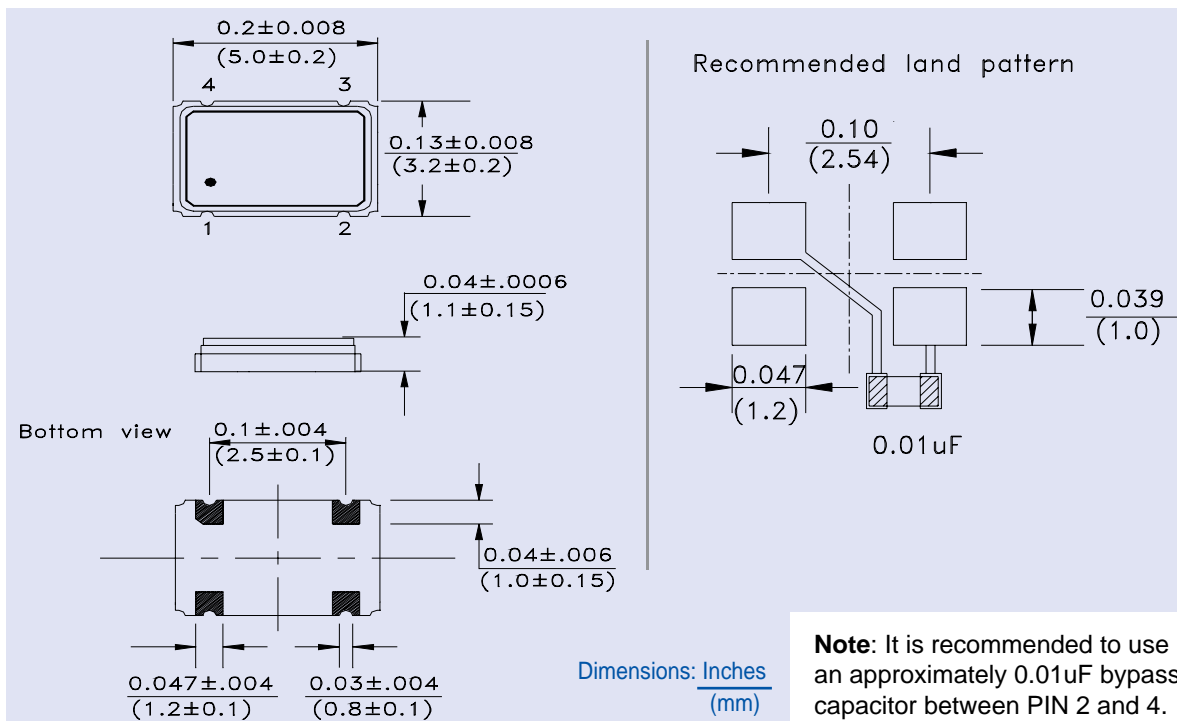


5.0 x 3.2 x 1.1 mm

ASF1



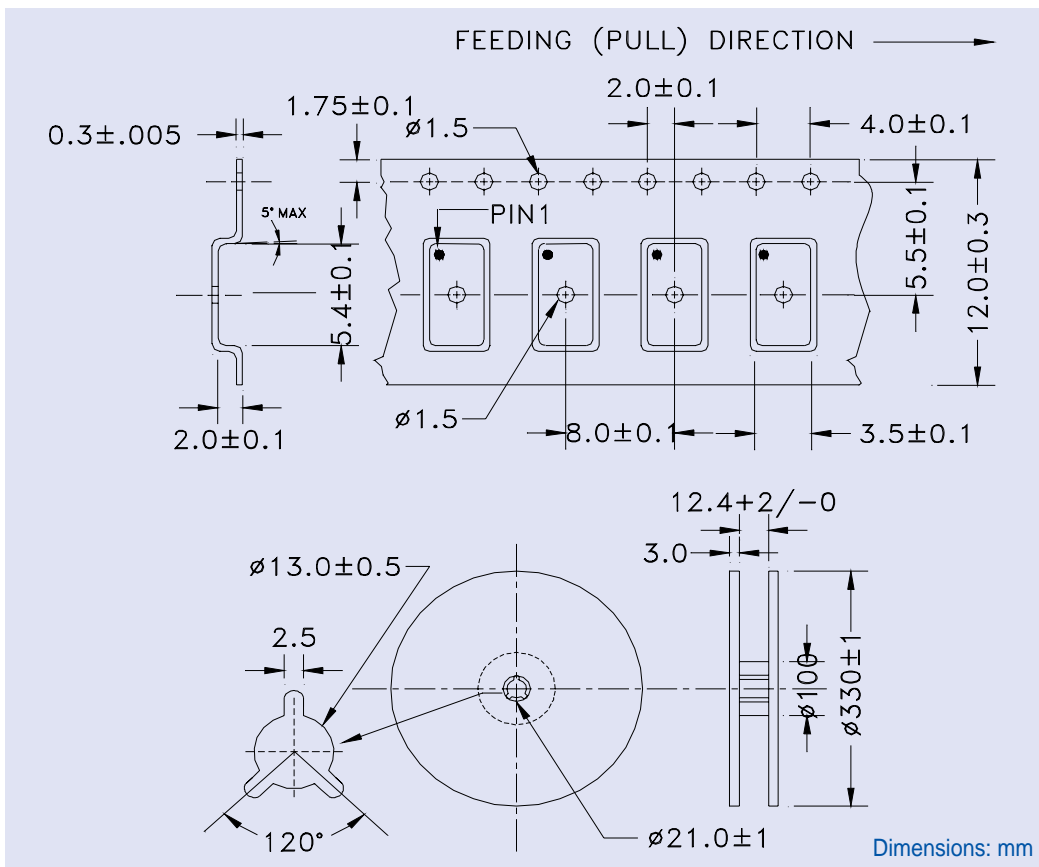
## OUTLINE DRAWING:



**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: Tape and reel 1,000pcs/reel



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