

# 2.5V HCMOS / TTL COMPATIBLE SMD CRYSTAL CLOCK OSCILLATOR



ASFL2

5.0 x 3.2 x 1.6 mm



ASFL2

## FEATURES:

- Compact and low in height
- 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:                 | ASFL2 Series  |
| Frequency:                   | 312 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):        | 2.5 Vdc ± 10%   |
| Supply Current (Idd):        | 15 mA max for 321kHz ~ 30MHz<br>45 mA max for 30MHz ~ 80MHz<br>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 or 50pF max.   |
| Output Voltage:              | VOH = 0.9*Vdd min.<br>VOL = 0.1*Vdd max.  |
| Tri State Function:          | "1" or open: Oscillation; VIH ≥ 0.7*Vdd<br>"0": Output disabled (HI-Z); VIL < 0.3*Vdd       |
| Start-up-time:               | 10 mS max.  |
| Aging per year:              | ±5 ppm max. @25°C   |

## OPTIONS AND PART IDENTIFICATION:

(Left blank if standard)

ASFL2 - Frequency - □ - □ - □ - □

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

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

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

ABRACON IS  
ISO 9001 / QS 9000  
CERTIFIED



Visit [www.abracon.com](http://www.abracon.com) for Terms & Conditions of Sale **Revised: 1.07.08**  
30332 Esperanza, Rancho Santa Margarita, California 92688  
tel 949-546-8000 | fax 949-546-8001 | [www.abracon.com](http://www.abracon.com)

# 2.5V HCMOS / TTL COMPATIBLE SMD CRYSTAL CLOCK OSCILLATOR



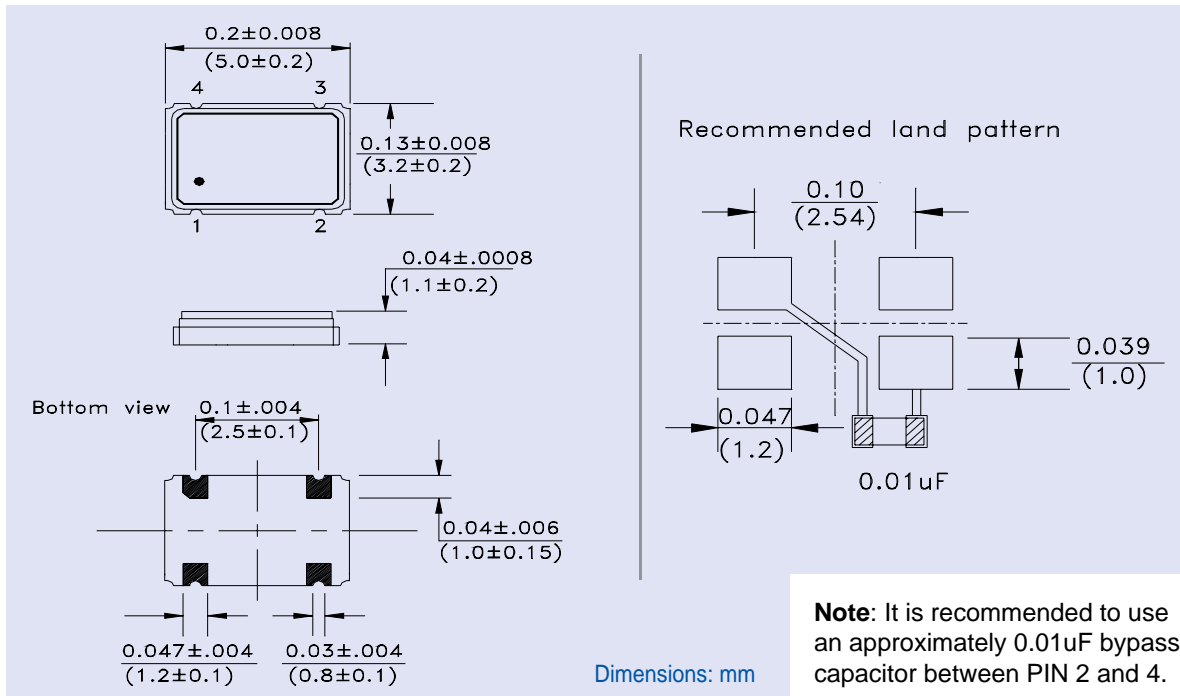
ASFL2

5.0 x 3.2 x 1.6 mm

ASFL2

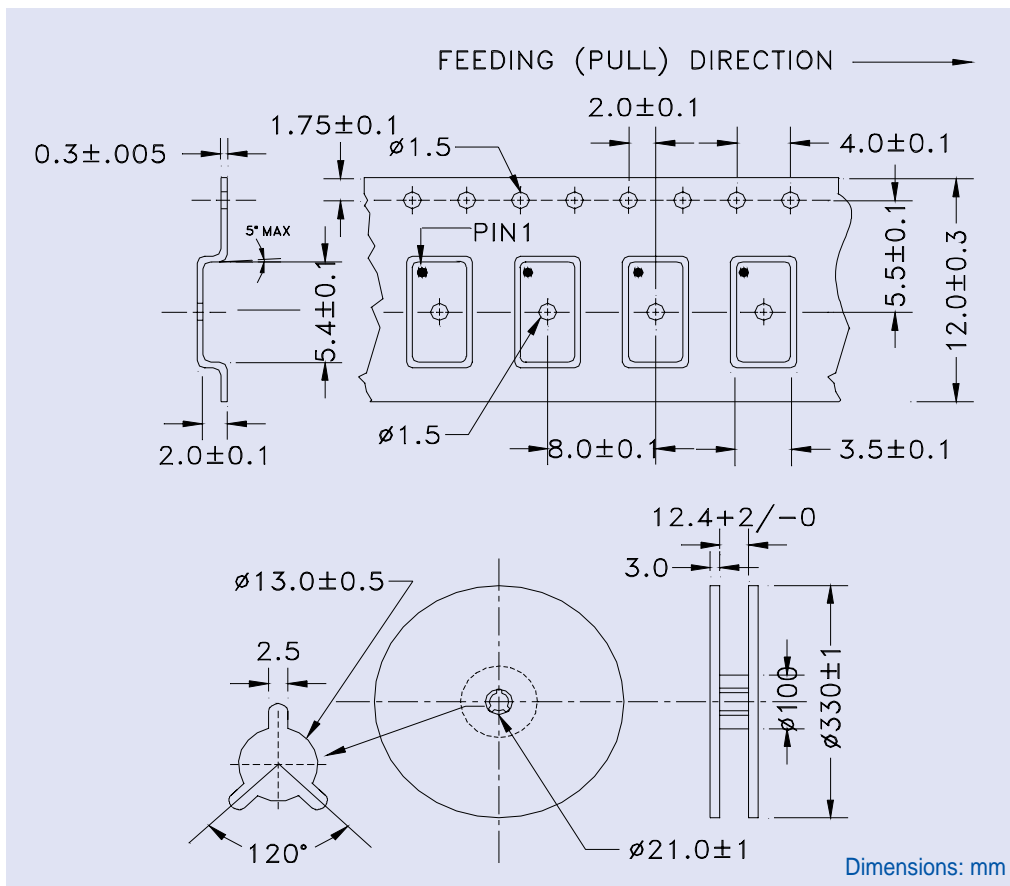


## OUTLINE DRAWING:



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

## TAPE & REEL: Tape and reel 1,000pcs/reel



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

ABRACON IS  
ISO 9001 / QS 9000  
CERTIFIED



Visit [www.abracon.com](http://www.abracon.com) for Terms & Conditions of Sale **Revised: 1.07.08**  
30332 Esperanza, Rancho Santa Margarita, California 92688  
tel 949-546-8000 | fax 949-546-8001 | [www.abracon.com](http://www.abracon.com)