

# 1.8V CMOS COMPATIBLE SMD CRYSTAL CLOCK OSCILLATOR

ASFL3



**RoHS**  
Compliant



5.0 x 3.2 x 1.6 mm

## FEATURES:

- Tri-state function
- Suitable for high density SMT
- Available tight stability option, +/-20ppm
- Seam sealed package assures high reliability
- Suitable for RoHS reflow

## APPLICATIONS:

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

## STANDARD SPECIFICATIONS:

### PARAMETERS

ABRACON P/N:	ASFL3 Series
Frequency:	0.5 MHz 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):	1.8 Vdc ± 10%
Supply Current (Idd):	See table below
Symmetry at 1/2 Vdd:	40/60% max. (see option)
Rise and Fall Times(Tr/Tf):	See table below
Output load:	15pF max.*
Output Voltage:	VOH = 0.9*Vdd min., VOL = 0.1*Vdd max.
Tri-state Function:	"1" or open;; Oscillation; VIH > 0.7*Vdd, "0": Output disabled (HI-Z); VIL < 0.3*Vdd
Start-up-time:	See table below
Aging (First year):	±3 ppm max. @25°C
Period Jitter:	See table below

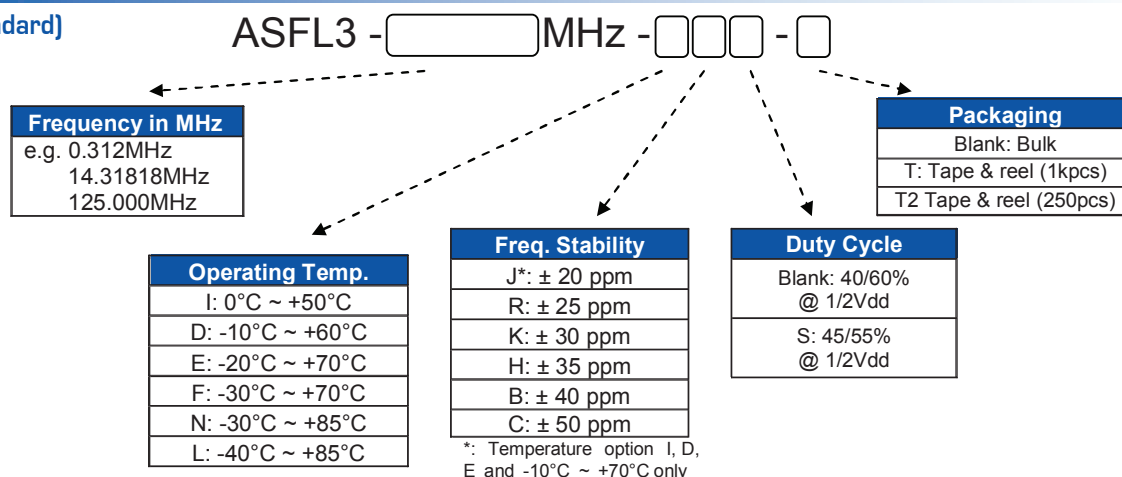
Table:

\* 30pF max is available. Please contact ABRACON.

Frequency range (MHz)	Idd mA (Typ)	Idd mA (Max)	Tr/Tf ns (Typ)	Tr/Tf ns (max)	Start-up time ms (Typ)	Start-up time ms (Max)	Period Jitter RMS ps (Typ)	Period Jitter RMS ps (Max)
0.5~9.999	2	5	5	10	3	5	2	3
10.000~29.999	5	8	3	6	3	5	2	3
30.000~49.999	8	10	3	6	3	5	2	3
50.000~69.999	5	10	2	5	3	5	2	3
70.000~99.999	8	15	2	5	4	10	2	3
100.000~125.000	12	20	2	4	4	10	2	3

## OPTIONS AND PART IDENTIFICATION:

(Left blank if standard)



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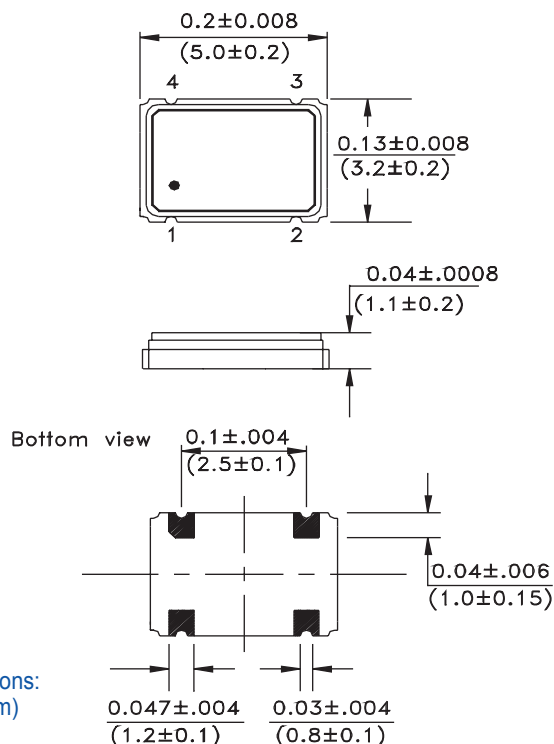


**RoHS**  
Compliant

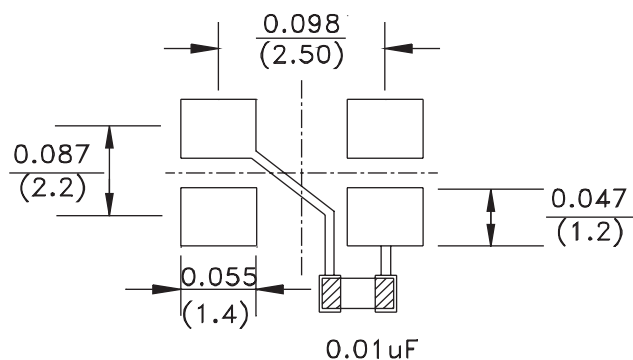


5.0 x 3.2 x 1.6 mm

## OUTLINE DRAWING:



## Recommended land pattern

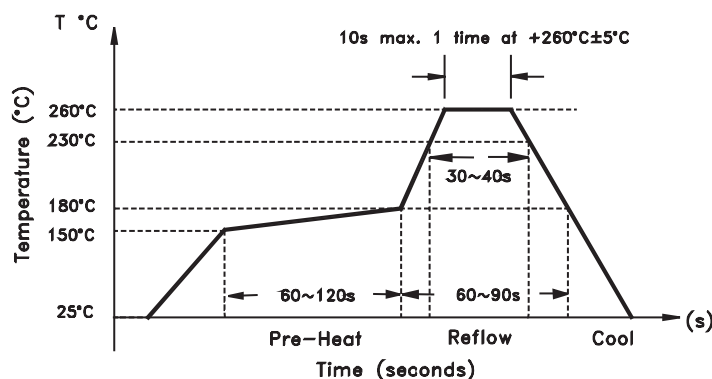
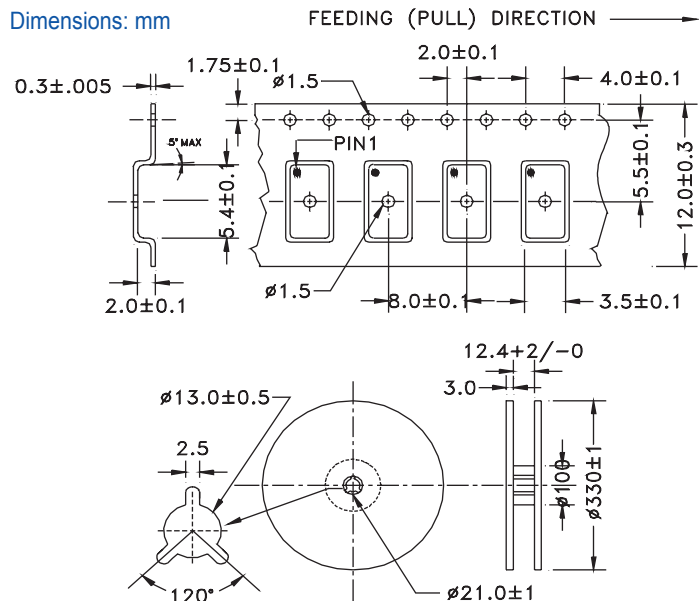


PIN	FUNCTION
1	Tri-State
2	GND
3	Output
4	VDD

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

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

## REFLOW PROFILE:



Need a test socket for the ASFL3 Series? To view compatible **PRECISION TEST & BURN-IN SOCKETS** for these parts, [click here](#).

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