

# 1.8Vdc CMOS COMPATIBLE SMD CRYSTAL CLOCK OSCILLATOR



3.2 x 2.5 x 0.9mm

ASE3 SERIES



RoHS Compliant

## FEATURES:

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

## APPLICATIONS:

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

## STANDARD SPECIFICATIONS:

### PARAMETERS

ABRACON P/N	ASE3 Series
Frequency Range	0.5 ~ 50 MHz
Operating Temperature	-20°C to +70°C (See Options)
Storage Temperature	-55°C to +100°C
Overall Frequency Stability	± 100 ppm max. (See Options)
Supply Voltage (Vdd)	1.8 Vdc ± 5%
Input Current	See Table 1
Symmetry	45/55% @ 50%Vdd
Rise and Fall Time (Tr/Tf)	See Table 1
Output Load	15 pF (max)
Output Voltage	VOH = 0.9* Vdd min. VOL = 0.1* Vdd max.
Tristate Function	"1" (VIH >= 1.62 Vdc) or open: Oscillation "0" (VIL < 0.18 Vdc) : Hi Z
Peak to Peak Jitter	32ps (Typical)
RMS Jitter	4.5ps (Typical)

TABLE 1 - Input Current

Freq. (MHz)	Idd max. (max. mA)	Tr/Tf max (nSec)
~ 20 MHz	5	10 max.
~ 40 MHz	9	10 max.
~ 60 MHz	11	10 max.
~ 75 MHz	14	10 max.

## OPTIONS & PART IDENTIFICATION:

[Left blank if standard]

### ASE3 - Frequency - - -

Operating Temp. Range	
I	0°C to +50°C
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

Contact ABRACON for wider temperature range.

Overall Frequency Stability	
Y(*)	±10ppm
J(**)	±20ppm
R	±25ppm
K	±30ppm
H	±35ppm
B	±40ppm
C	±50ppm

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

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

Packaging	
T	Tape and Reel



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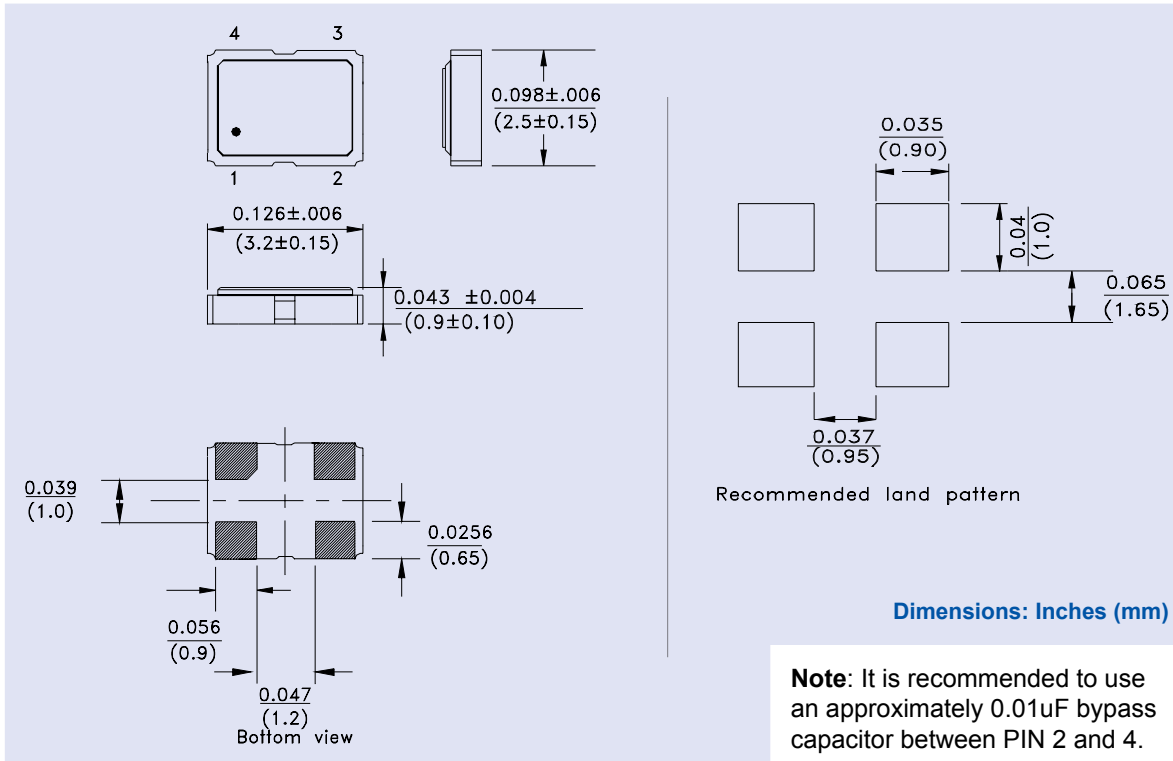


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## OUTLINE DRAWING:



PIN	FUNCTION
1	Tri-state
2	GND/Case
3	Output
4	Vdd

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

## TAPE & REEL:

