

2.5Vdc CMOS COMPATIBLE SMD CRYSTAL CLOCK OSCILLATOR



3.2 x 2.5 x 1.1mm

ASE2 SERIES



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	ASE2 Series
Frequency Range	0.625 ~ 166 MHz
Operating Temperature	-10°C to + 70°C (See Options)
Storage Temperature	-55°C to + 125°C
Overall Frequency Stability	± 100 ppm max. (See Options)
Supply Voltage (Vdd)	2.5 V ± 5%
Input Current	See Table 1
Symmetry	45/55% @ 1/2 %Vdd
Rise and Fall Time (Tr/Tf)	See Table 1
Output Load	15 pF (max) or 10 TTL loads
Output Voltage	VOH = 0.9* Vdd min. VOL = 0.1* Vdd max.
Tristate Function	"1" (VIH >= 2.2 Vdc) or open: Oscillation "0" (VIL < 0.8 Vdc) : Hi Z
Peak to Peak Jitter	27ps (Typical) *
RMS Jitter	3.1ps (Typical) *
Start-up Time	10ms max.
Aging	± 5 ppm max.

TABLE 1- Input Current

Freq. (MHz)	Idd max. (max. mA)	Tr/Tf max. (nSec)
~ 30 MHz	8	10 max.
~ 166 MHz	15	10 max.

* = Reference only; Contact Abracon for Jitter values

OPTIONS & PART IDENTIFICATION:

(Left blank if standard)

ASE2 - Frequency - □ - □ - □

Frequency	
XX.XXXX	MHz

Operating Temp.	
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	
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	
Blank	Bulk
T	Tape and Reel

ABRACON IS
ISO 9001 / QS 9000
CERTIFIED



ABRACON
CORPORATION

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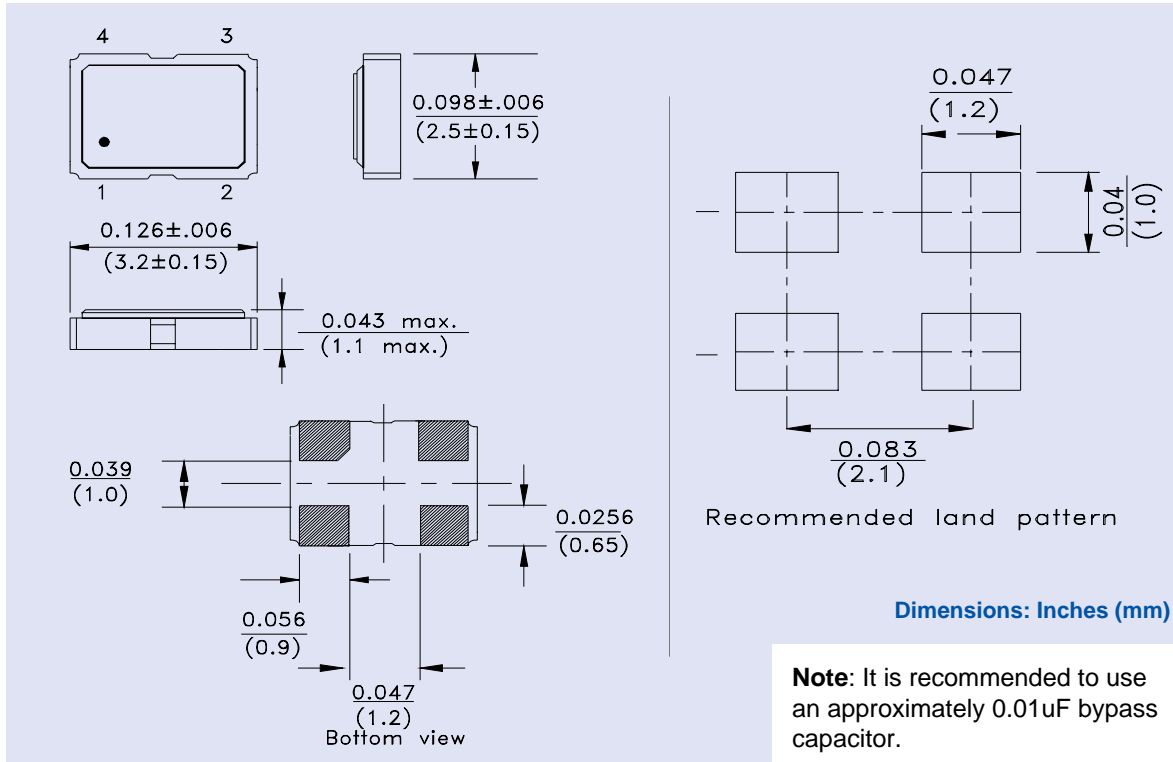
ASE2

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OUTLINE DRAWING:



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

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

