

3.3Vdc CMOS COMPATIBLE SMD CRYSTAL CLOCK OSCILLATOR



ASE

3.2 X 2.5 X 1.1mm

ASE SERIES



FEATURES:

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

APPLICATIONS:

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

STANDARD SPECIFICATIONS:

PARAMETERS

ABRACON P/N	ASE Series
Frequency Range	0.625 ~ 200 MHz
Operating Temperature	-10°C to + 70°C (See Options)
Storage Temperature	-55°C to + 100°C
Overall Frequency Stability	± 100 ppm max. (See Options)
Supply Voltage (Vdd)	3.3 V ± 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 >= 2.2 Vdc) or open: Oscillation "0" (VIL < 0.8 Vdc) : Hi Z
Peak to Peak Jitter	28ps (Typical) *
RMS Jitter	3.6ps (Typical) *
Stand-By Current	10 µA max.

TABLE 1 - Input Current

Freq. (MHz)	Idd max. (max. mA)	Tr/Tf max (nSec)
~ 30 MHz	10	10 max.
~ 75 MHz	15	10 max.
~ 133 MHz	20	10 max.
~ 200 MHz	25	10 max.

* = Reference only; Contact Abracon for Jitter values

OPTIONS & PART IDENTIFICATION:

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ASE - 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	
J(*)	±20ppm
R	±25ppm
K	±30ppm
H	±35ppm
B	±40ppm
C	±50ppm

Temp options I, D, and E only

Packaging	
Blank	Bulk
T	Tape and Reel



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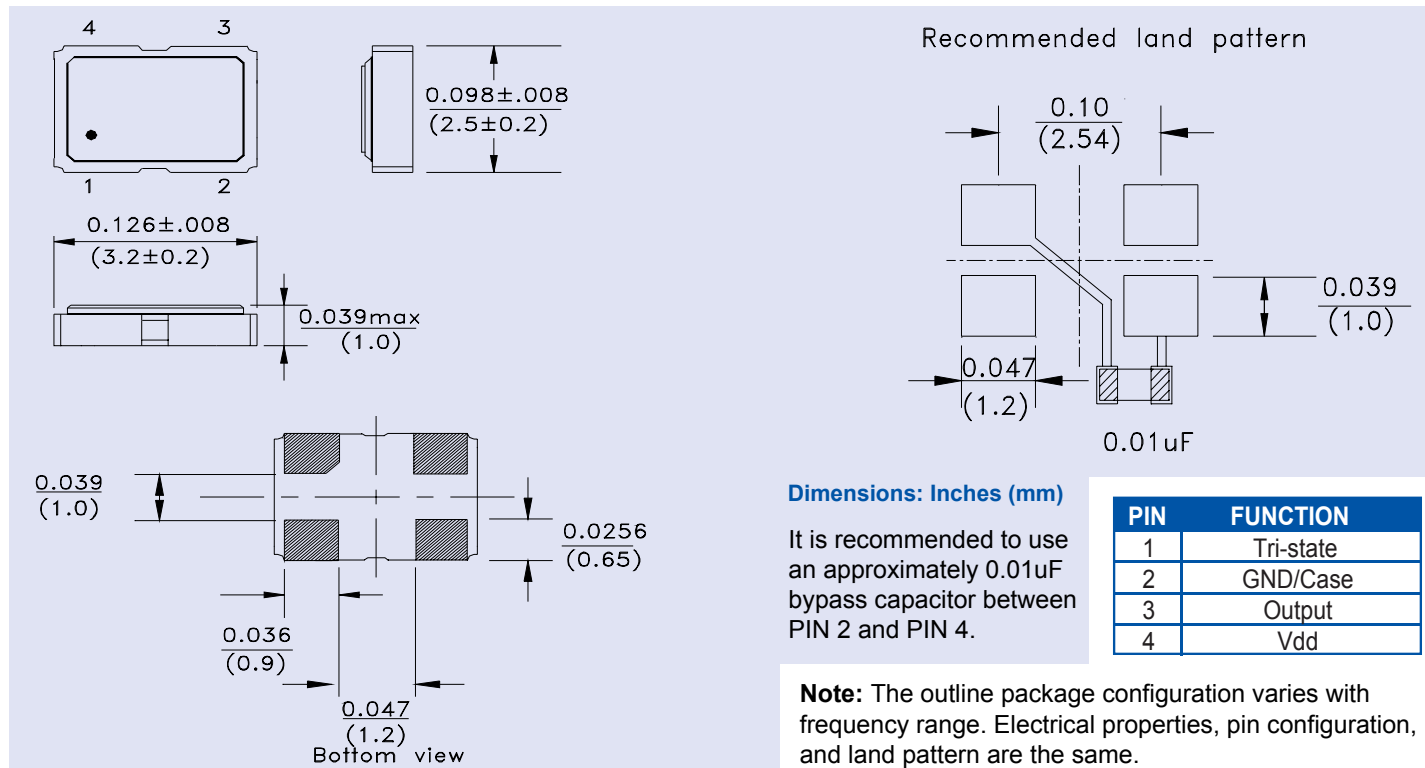
ASE

3.2 X 2.5 X 1.1mm

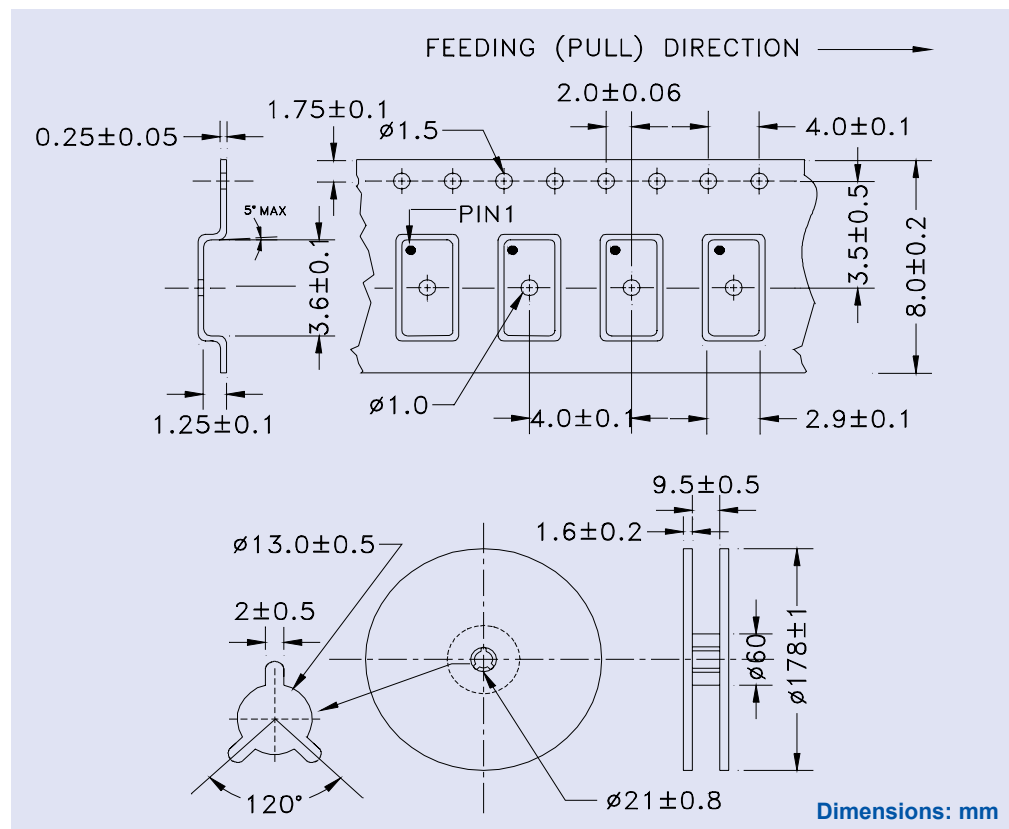
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OUTLINE DRAWING:



TAPE & REEL



ABRACON IS
ISO 9001 / QS 9000
CERTIFIED



Visit www.abracon.com for Terms & Conditions of Sale **Revised: 12.28.07**

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