

3.3Vdc CMOS COMPATIBLE SMD CRYSTAL CLOCK OSCILLATOR

ASE SERIES



RoHS
Compliant



3.2 X 2.5 X 1.1mm

FEATURES:

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

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 +125° 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
Start-up time:	See Table 1
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	See Table 1
Stand-By Current	10 µA max.

* = Reference only; Contact Abracon for Jitter values

TABLE 1

Frequency (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)	RMS Jitter ps (Typ)	RMS Jitter ps (Max)
0.5 ~ 20	2.5	7	2.5	10	1	10	3.2	5
20.01 ~ 40.0	4.4	13	2.4	10	1	10	3.2	5
40.01 ~ 60.0	6.5	19	2.4	10	1	10	3.2	5
60.01 ~ 75.0	12.7	24	2.3	10	1	10	3.2	5
75.01 ~ 133.0	10.5	20	2.1	10	1	10	2.2	5
133.01 ~ 200.0	18.2	25	2.1	10	1	10	2.2	5

OPTIONS & PART IDENTIFICATION:

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ASE - Frequency - □ - □ - □

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

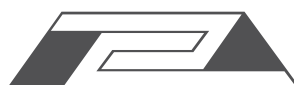
Contact ABRACON for wider temperature range.

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

* Temp options I, D, E and -10° C to +70° C only

Packaging	
Blank	Bulk
T	Tape and Reel

ABRACON IS
ISO 9001 / QS 9000
CERTIFIED



ABRACON
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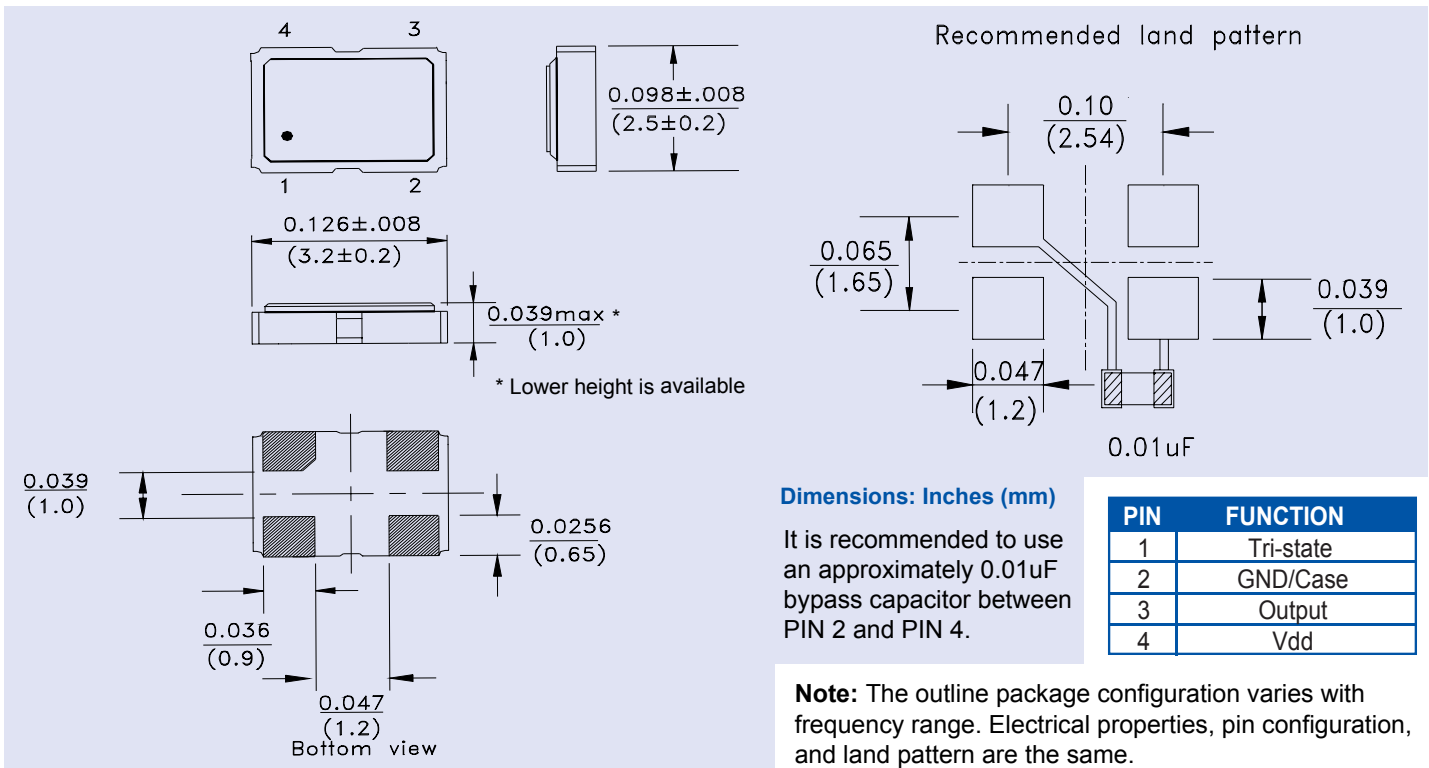


3.2 X 2.5 X 1.1mm

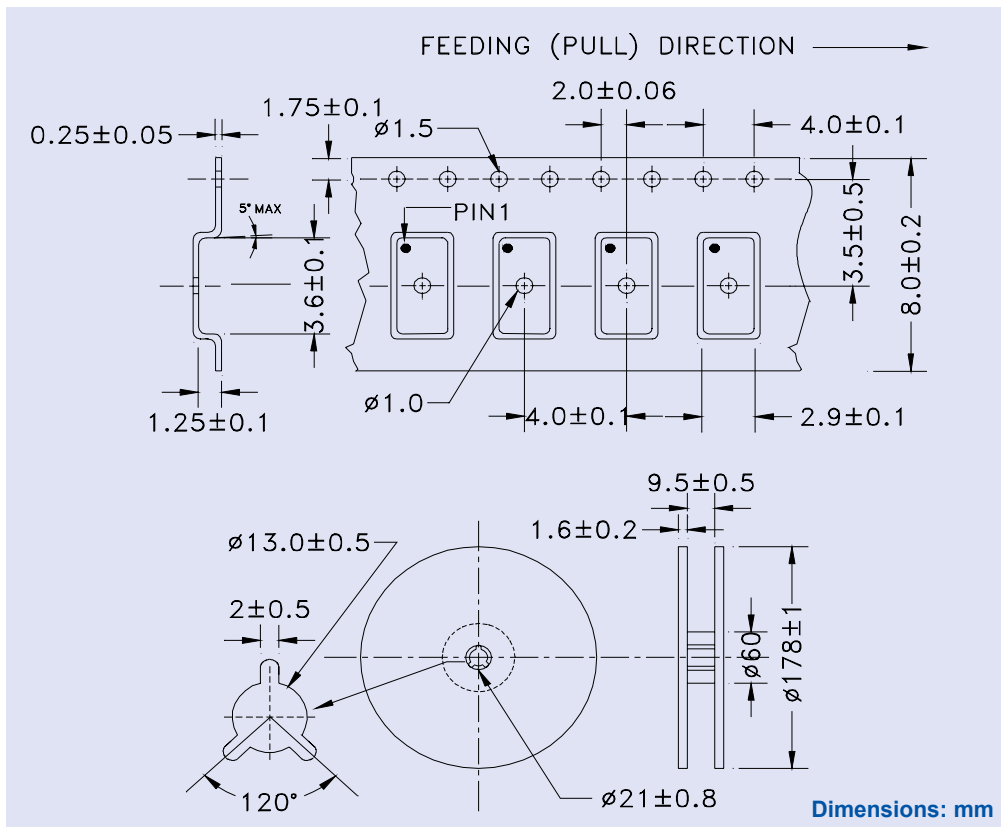
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OUTLINE DRAWING:



TAPE & REEL



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