

1.8V CMOS COMPATIBLE SMD CRYSTAL CLOCK OSCILLATOR

ASFL3



RoHS
Compliant

ASFL3

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

* 30pF max is available. Please contact ABRACON.

Table:

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)

ASFL3 - [] MHz - [] - []

Frequency in MHz
e.g. 0.312MHz
14.31818MHz
125.000MHz

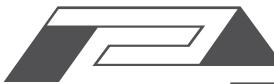
Operating Temp.
I: 0°C ~ +50°C
D: -10°C ~ +60°C
E: -20°C ~ +70°C
F: -30°C ~ +70°C
N: -30°C ~ +85°C
L: -40°C ~ +85°C

Freq. Stability
J*: ± 20 ppm
R: ± 25 ppm
K: ± 30 ppm
H: ± 35 ppm
B: ± 40 ppm
C: ± 50 ppm

Duty Cycle
Blank: 40/60% @ 1/2Vdd
S: 45/55% @ 1/2Vdd

Packaging
Blank: Bulk
T: Tape & reel (1kpcs)
T2 Tape & reel (250pcs)

*: Temperature option I, D, E and -10°C ~ +70°C only



1.8V CMOS COMPATIBLE SMD CRYSTAL CLOCK OSCILLATOR

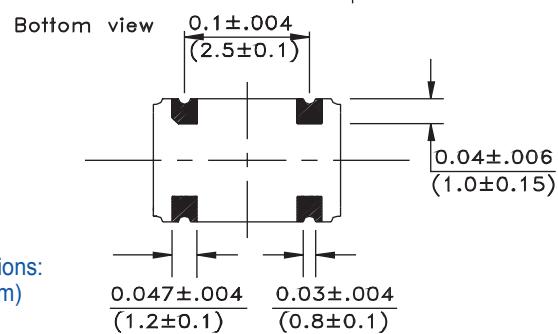
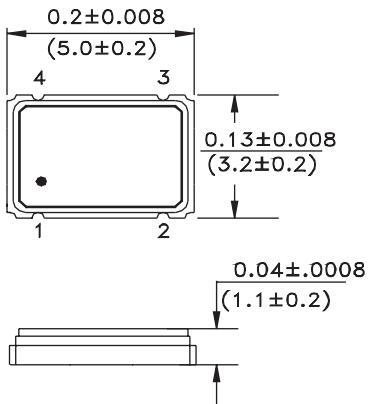
ASFL3



ASFL3

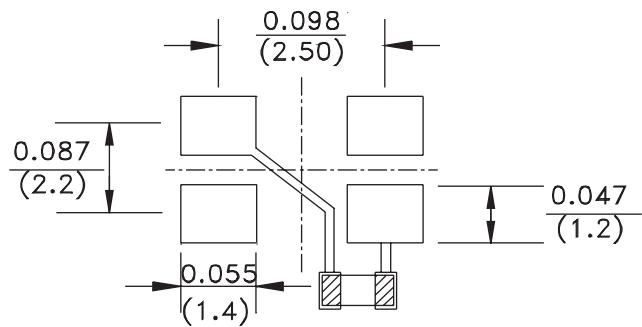
5.0 x 3.2 x 1.6 mm

► OUTLINE DRAWING:



Dimensions:
Inch (mm)

Recommended land pattern

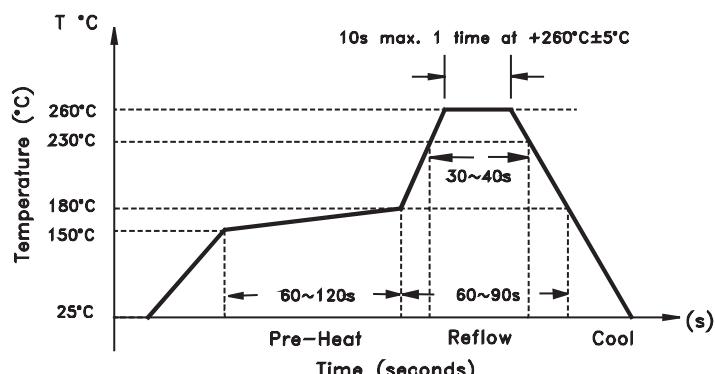
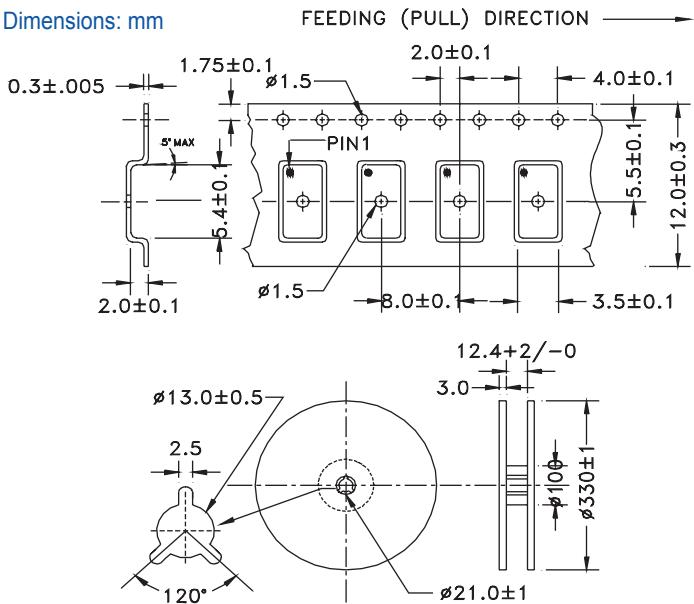


PIN	FUNCTION
1	Tri-State
2	GND
3	Output
4	VDD

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](#).

compatible **PRECISION TEST & BURN
SOCKETS** for these parts - [click here](#)

ATTENTION: Abracor Corporation's products are COTS – Commercial-Off-The-Shelf products; suitable for Commercial, Industrial and, where designated, Automotive Applications. Abracor's products are not specifically designed for Military, Aviation, Aerospace, Life-dependant Medical applications or any application requiring high reliability where component failure could result in loss of life and/or property. For applications requiring high reliability and/or presenting an extreme operating environment, written consent and authorization from Abracor Corporation is required. Please contact Abracor Corporation for more information.