



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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3.2 x 2.5 x 1.2 mm 32.768kHz CERAMIC SURFACE MOUNT CRYSTAL OSCILLATOR

ASEK Series



RoHS Compliant



3.2 x 2.5 x 1.2 mm

FEATURES:

- 32.768kHz in 3.2 x 2.5 package
- Seam sealed assure high reliability performance
- Low current consumption
- IR-Reflow capable
- Extend temperature range available

APPLICATIONS:

- Laptop
- Digital camera
- Wireless LAN
- Bluetooth and mobile communication
- LCD
- PDA and MP3 player
- Electricity, gas and water metering

STANDARD SPECIFICATIONS:

PARAMETERS

ABRACON P/N	ASEK Series
Frequency	32.768kHz
Operating Temperature	0°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 Vdc ± 10% (see options)
Supply current:	0.8mA typical, 1.5mA max.(Vdd= 1.8V±5%) 1.2mA typical, 2.5mA max.(Vdd= 2.5V±5%) 1.7mA typical, 3.5mA max.(Vdd= 3.3V±10%)
Symmetry:	40/60 % max.@ 1/2Vdd (see options)
Rise and fall time (Tr/Tf):	40ns typical, 50 ns max
Output load:	15pF
Output voltage:	VOH = 0.9 * Vdd min. VOL = 0.1 * Vdd max
Start-up time:	24ms typical, 28ms max
Tri-state function :	Logic "1" or open: Oscillation Logic "0" (VIL < 0.8 Vdc) : Hi z
Aging at 25°C :	± 3ppm/year

OPTIONS AND PART IDENTIFICATION (Left blank if standard)

ASEK-□ - 32.768kHz - □ - □ - □ - □

Supply Voltage	
Blank	3.3V±10%
1	2.5V±5%
2	1.8V±5%

Operating Temp.	
E	-20°C to +70°C
F	-30°C to +70°C
N	-30°C to +85°C
L	-40°C to +85°C

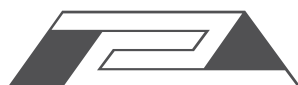
*Contact ABRACON for extended temperature range.

Freq. Stability	
J	±20ppm(*)
R	±25ppm
K	±30ppm
C	±50ppm

* For E, F, N and 0° C to + 70° C only

Packaging	
T	Tape and Reel

Symmetry	
S	45/55% max at 1/2Vdd



3.2 x 2.5 x 1.2 mm 32.768kHz CERAMIC SURFACE MOUNT CRYSTAL OSCILLATOR

ASEK Series

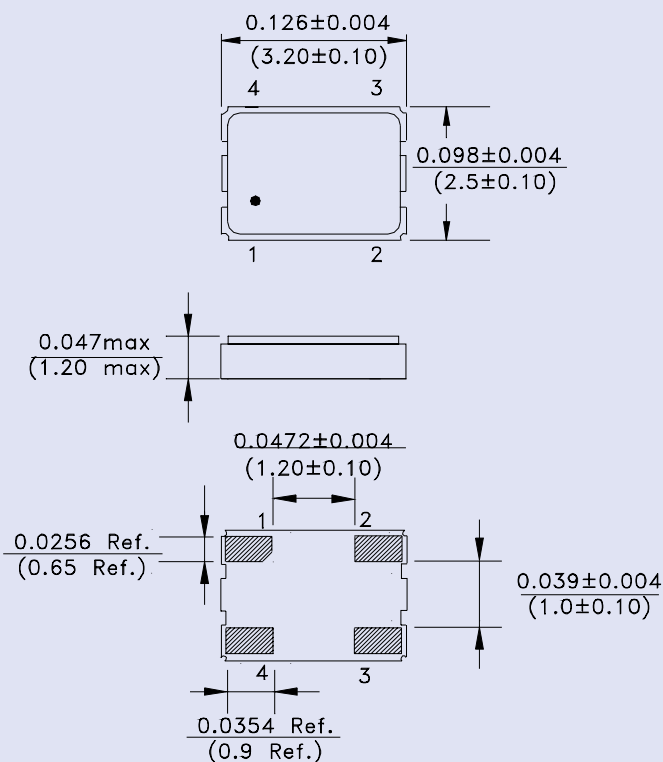


RoHS Compliant

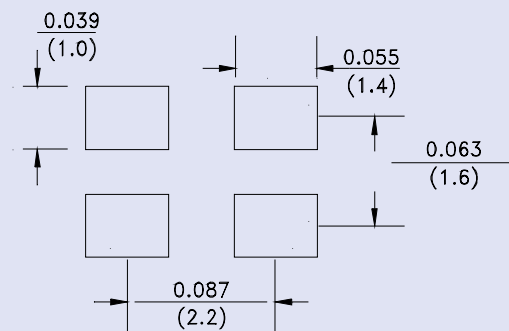


3.2 x 2.5 x 1.2 mm

OUTLINE DRAWING:



Recommended Land Pattern



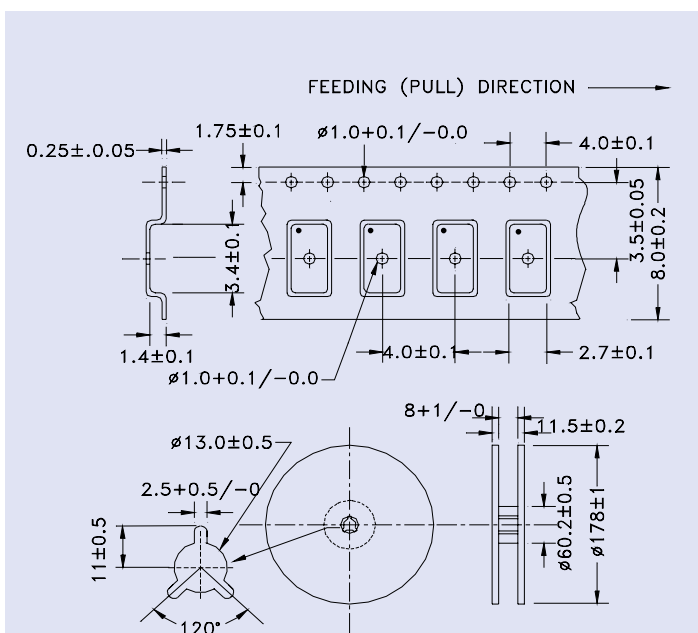
PIN	FUNCTION
1	Tri-state
2	GND
3	Output
4	Vdd

Note: Recommend using an approximately 0.01uF bypass capacitor between PIN 2 and 4.

Dimensions: inches (mm)

TAPE & REEL: (1,000pcs/reel)

REFLOW PROFILE



Dimensions: mm

