# 32.768kHz CERAMIC SMD CRYSTAL OSCILLATOR

## **ASFLK SERIES**





5.0 x 3.2 x 1.3mm

### **FEATURES**:

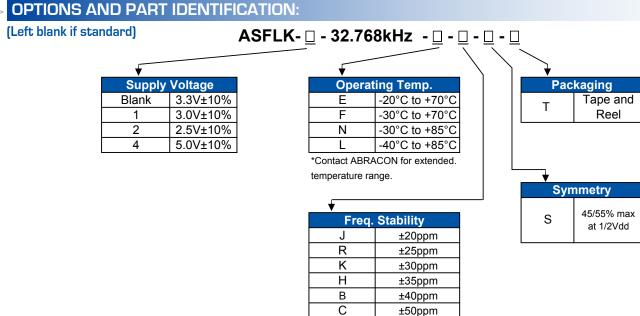
- Pb-Free/RoHS Compliant
- Tri state function
- Suitable for high density SMT
- IR reflow capable
- Seam sealed ceramic package

### > APPLICATIONS:

- CCD clock for VTR camera
- Computers and peripherals
- Portable MP3 players and games

### STANDARD SPECIFICATIONS:

PARAMETERS	
ABRACON P/N:	ASFLK Series
Frequency range:	32.768kHz
Operating temperature:	0°C to + 70°C (see options)
Storage temperature:	-55°C to +125°C
Overall Frequency Stablilty:	± 100ppm max. (see options)
Supply Voltage (Vdd):	3.3 Vdc ± 10% (see options)
Supply current:	Vdd = 2.5 ~ 3.3V, 0.5mA typ. 1.0mA max.
	Vdd = 5.0V, 1.5mA typ. 5.0mA max.
Symmetry:	40/60 % max.@ 1/2Vdd (see options)
Rise and fall time (Tr/Tf):	250 ns max.
Output Load:	15pF or 10TTL max.
Output Voltage:	VOH = 2.97V min. VOL = 0.33V max.
Start-up-time	30ms max.
Tristate function:	Logic "1" or open: Oscillation
	Logic "0" (VIL < 0.8 Vdc) : Hi Z
Aging at 25°C/year:	± 3ppm/year max.
Phase jitter:	1ps RMS max.





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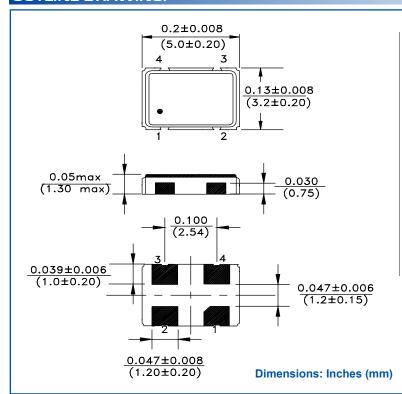
**ASFLK SERIES** 



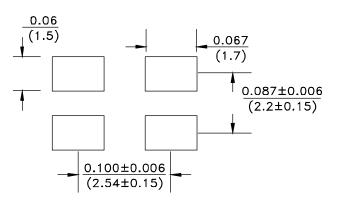


5.0 x 3.2 x 1.3mm

### **OUTLINE DRAWING:**



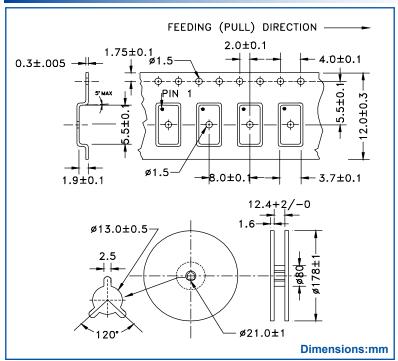
#### Recommended Land Pattern



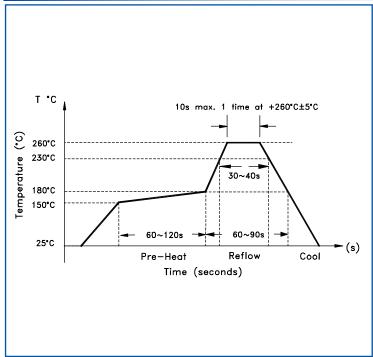
Note: Recommend using an approximately 0.01uF bypass capacitor between PIN 2 and 4.

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

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



### **REFLOW PROFILE**





Need a test socket for the ASFLK series? To view compatible **PRECISION TEST & BURN-IN SOCKETS** for these parts, **click here.** 

\* NOTE: Abracon manufactured products are intended for general commercial and industrial use. For applications requiring high reliability and/or presenting extreme operating environment, written consent & authorization from Abracon is required.

ABRACON IS ISO 9001 / QS 9000 CERTIFIED

