32.768kHz CERAMIC SMD CRYSTAL OSCILLATOR



5.0 x 3.2 x 1.3mm

FEATURES:

• Pb-Free/RoHS Compliant

ASFLK SERIES

- Tri state functionSuitable for high density SMT
- IR reflow capable
- Seam sealed ceramic
 - T package

> APPLICATIONS:

CCD clock for VTR camera

Pb

- Computers and peripherals
- Portable MP3 players and games

RoHS

Compliant

\triangleright	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.			

OPTIONS AND PART IDENTIFICATION:

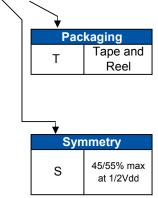
(Left blank if standard)

V	
Supply	Voltage
Blank	3.3V±10%
1	3.0V±10%
2	2.5V±10%
4	5.0V±10%
	J.0V11070

		$\overline{\ }$
Operat	ting 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 ABRA	ACON for extended.	
temperature ra	nge.	

ASFLK- _ - 32.768kHz - _ - _ - _ - _ -

¥	
Freq. Stability	
J	±20ppm
R	±25ppm
K	±30ppm
Н	±35ppm
В	±40ppm
С	±50ppm





Visit www.abracon.com for Terms & Conditions of Sale **Revised: 09.14.09** 30332 Esperanza, Rancho Santa Margarita, California 92688 tel 949-546-8000 | fax 949-546-8001 | www.abracon.com

32.768kHz CERAMIC SMD CRYSTAL OSCILLATOR

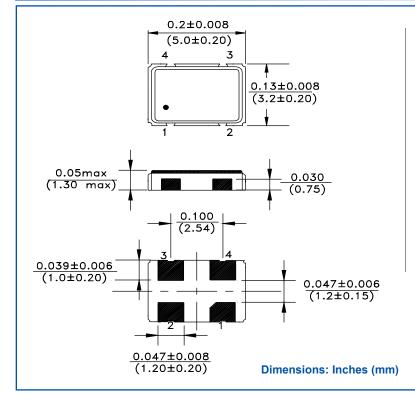


ASFLK SERIES

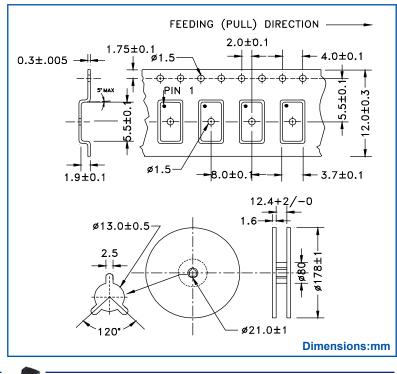
OUTLINE DRAWING:



5.0 x 3.2 x 1.3mm



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



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

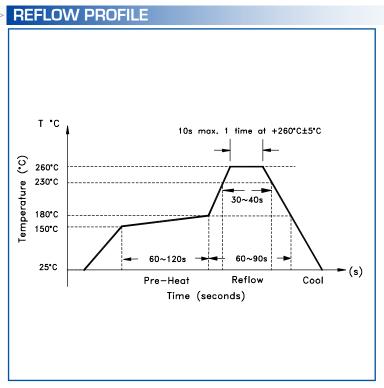
ABRACON IS ISO 9001 / QS 9000 CERTIFIED



Recommended Land Pattern 0.06 (1.5) 0.087 ± 0.006 (2.2 ± 0.15) - 0.100 ± 0.006 (2.54 ± 0.15)

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



* **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.

Visit www.abracon.com for Terms & Conditions of Sale **Revised: 09.14.09** 30332 Esperanza, Rancho Santa Margarita, California 92688 tel 949-546-8000 | fax 949-546-8001 | www.abracon.com