2.5 x 2.0 x 0.95 mm 32.768kHz CERAMIC SURFACE MOUNT CRYSTAL OSCILLATOR



ASDK Series

FEATURES:

- 32.768kHz in 2.5 x 2.0 x 0.95mm package
- Seam sealed assure high reliability performance
- Low current consumption 1.0mA (Vdd=1.8V)
- Suitable for RoHS compliant reflow
- Extend temperature range available

> **STANDARD SPECIFICATIONS:**

APPLICATIONS:

- Laptop
- Digital camera
- Wireless LAN
- Bluetooth and
- mobile communication
- LCD
 - PDA and MP3 player

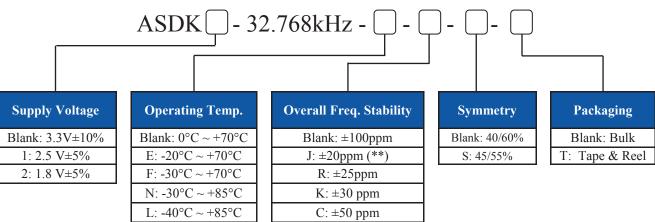
RoHS

Compliant

• Electricity, gas and water metering

Parameters		Minimum	Typical	Maximum	Units	Notes
Frequency Range			32.768		kHz	
Operating Temperature		0		+70	°C	See options
Storage Temperature		-55		+125	°C	
Overall Frequency Stability		-100		+100	ppm	See options
Supply Voltage (Vdd)		2.97	3.3	3.66	V	Standard
		2.375	2.5	2.625		Option 1
		1.71	1.8	1.89		Option 2
Supply Current (I _{dd})			1.0	1.5	mA	Vdd=1.8V
			1.2	2.5		Vdd=2.5V
			2.2	3.5		Vdd=3.3V
Output Load				15	pF	CMOS
Output Voltage	V _{OH}	0.9*Vdd			V	
	V _{OL}			0.1*Vdd		
Tri-state function		"1" ($V_{IH} \ge 0.7*Vdd$) Open: Oscillation "0" ($V_{IL} < 0.3*Vdd$) : Hi Z				
Aging		-3.0		+3.0	ppm	@+25°C First year
Symmetry @1/2Vdd		40	50	60	%	Standard
		45	50	55		Option S
Start-up Time			≤ 2	5	ms	
Rise/Fall Time (Tr/Tf)			43	50	ns	
Disable Current		1		10	μA	

• **OPTIONS AND PART IDENTIFICATION (Left blank if standard)**



*Contact ABRACON for extended temperature rang ** For Temp option E, F, N and 0° C to + 70° C only



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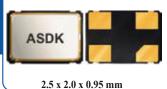
REVISED: 06.13.2017

ABRACON IS
ISO9001-2008
CERTIFIED

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4.0±0.1

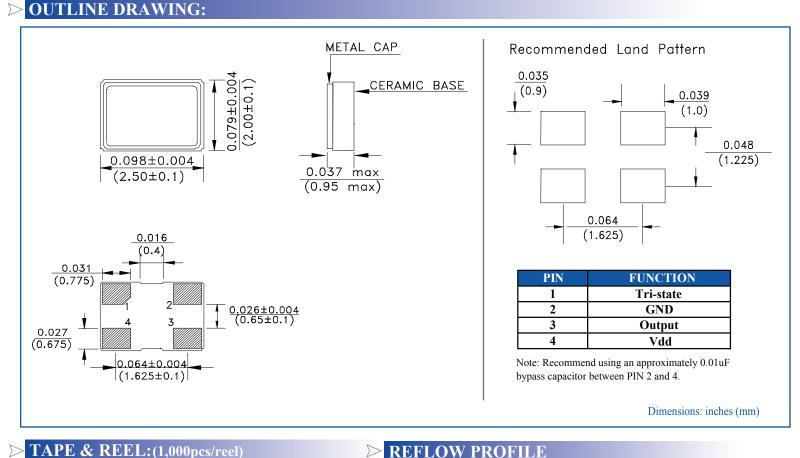
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RoHS

Compliant

ASDK Series



FEEDING (PULL) DIRECTION 1.75 ± 0.1 ø1.55±0.05 0.25±.0.05 9 P

5±0.0 0±0.2 ÷ ώ 2.25 ± 0.05 0.8±0.05 n+nø1.10±0.1 8+1 11.5±0.2 ø13.0±0.5-2.5+0.5/-입 ø178± 1±0. ø60. 20 Dimensions: mm

3 Тр Critical Zone TLtoTp Temperatu Ramp Do 1 2 t 25°C to Peak Time Description Temperature Time Zone Preheat $1_{\text{SMEN}} \sim 1_{\text{SMAX}}$ 150°C ~ 180°C 60~120 sec 1 Т_L 230°С Reflow 30 ~ 40 sec Т_р 260°С Peak Heat 10 sec. MAX

ATTENTION: Abracon products are COTS - Commercial-Off-The-Shelf products; suitable for Commercial, Industrial and, where designated, Automotive Applications. Abracon'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 Abracon is required. Please contact Abracon for more information.

Need a test socket for the ASDK Series? To view compatible **PRECISION TEST & BURN-IN SOCKETS** for these parts, click here. AXS-2520-04-07

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