ABS05





1.6 x 1.0 x 0.5mm

FEATURES:

- Smallest 32.768KHz package available
- 0.5mm height ideal for high density circuit boards
- Ceramic package offers excellent environmental & heat resistance
- Extended temperature -40°C to +85°C for industrial applications

APPLICATIONS:

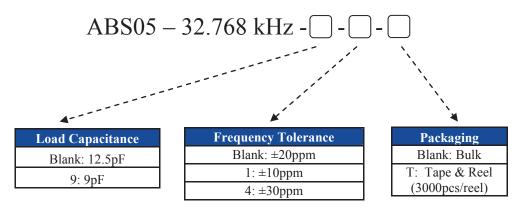
- Wide range in communication & measuring equipment
- Commercial & Industrial applications
- Automotive electronics applications
- Wireless communications
- PDA and Palm Pilots

STANDARD SPECIFICATIONS:

Parameters	Minimum	Typical	Maximum	Units	Notes
Frequency		32.768		kHz	
Operation Mode	Flexural Mode (Tuning Fork)				
Operating Temperature	-40		+85	°C	
Storage Temperature	-55		+125	°C	
Frequency Tolerance @+25°C	-20		+20	ppm	See options
Temperature Coefficient:	-0.04	-0.03	-0.02	ppm/T²	
Turn-over temperature:	+20	+25	+30	°C	
Equivalent series resistance (ESR)			90	kΩ	
Load capacitance		12.5		pF	See options
Drive Level			0.5	μW	

> OPTIONS AND PART IDENTIFICATION:

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Contact Abracon for non-standard capacitance



ABS05

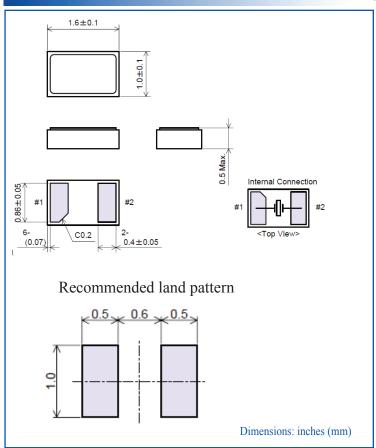




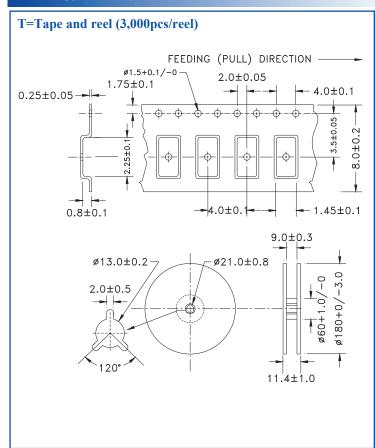
ABS05

1.6 x 1.0 x 0.5mm

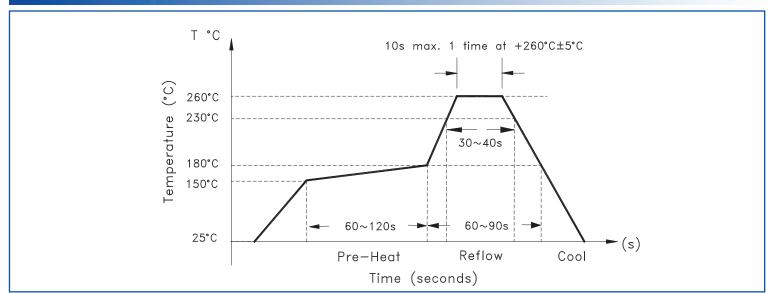
OUTLINE DRAWING:



TAPE & REEL:



REFLOW PROFILE:





Need a test socket for the ABS05 Series? To view compatible PRECISION TEST & BURN-IN SOCKETS for these parts, click here. P/N AXS-2012-02-04

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ABS06L



ABS06L



2.0 x 1.2 x 0.38mm

FEATURES:

- Lowest height kHz package for 32.768kHz Crystals
- 0.38mm height ideal for high density circuit boards
- Ceramic package offers excellent environmental & heat resistance
- Extended temperature -40°C to +85°C for industrial applications

APPLICATIONS:

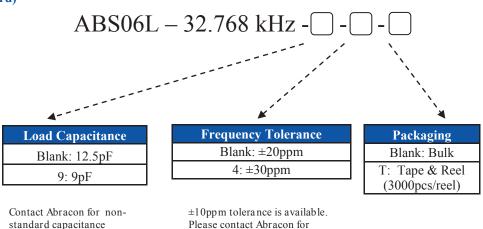
- Wide range in communication & measuring equipment
- Commercial & Industrial applications
- Automotive electronics applications
- Wireless communications
- PDA and Palm Pilots
- · Credit Cards with Security Technology

STANDARD SPECIFICATIONS:

Parameters	Minimum	Typical	Maximum	Units	Notes
Frequency		32.768		kHz	
Operation Mode	Flexural Mode (Tuning Fork)				
Operating Temperature	-40		+85	°C	
Storage Temperature	-55		+125	°C	
Frequency Tolerance @+25°C	-20		+20	ppm	See options
Temperature Coefficient:	-0.04	-0.03	-0.02	ppm/T²	
Turn-over temperature:	+20	+25	+30	°C	
Equivalent series resistance (ESR)			100	kΩ	
Load capacitance		12.5		pF	See options
Drive Level			0.5	μW	

> OPTIONS AND PART IDENTIFICATION:

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more information.

ABRACON IS ISO 9001:2008 CERTIFIED



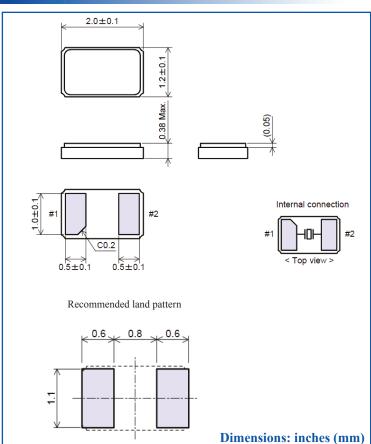
ABS06L

ABS06L

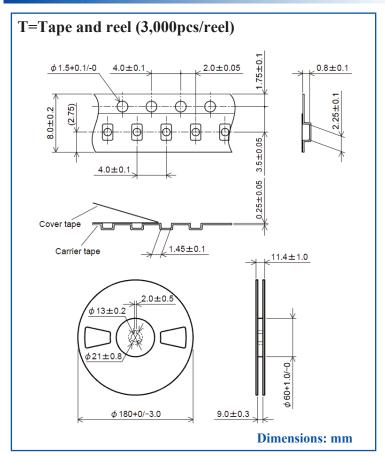


2.0 x 1.2 x 0.38mm

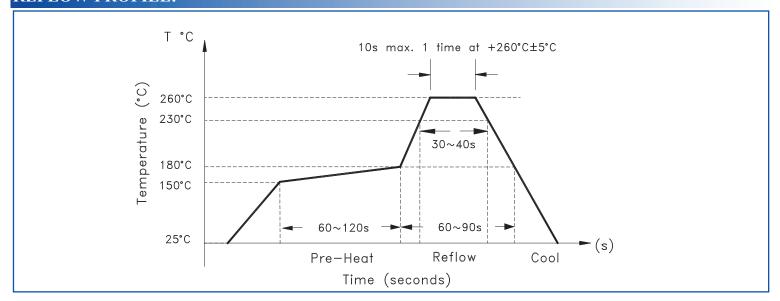
OUTLINE DRAWING:



TAPE & REEL:



REFLOW PROFILE:





Need a test socket for the ABS06 Series? To view compatible PRECISION TEST & BURN-IN SOCKETS for these parts, click here. P/N AXS-2012-02-04

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ABS07





FEATURES:

- Low frequency in small size SMD
- 0.9mm height ideal for high density circuit boards
- Seam sealed ceramic package offers excellent environmental & heat resistance
- Extended temperature -40°C to +85°C for industrial applications

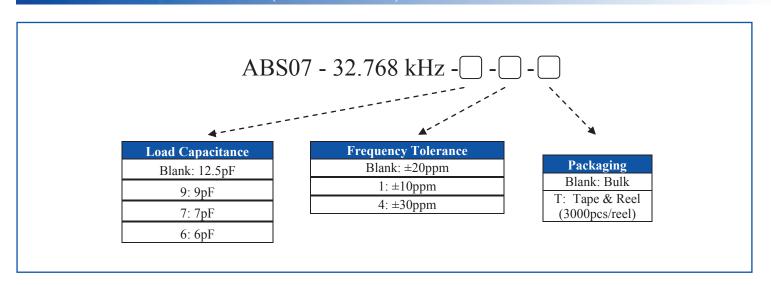
> APPLICATIONS:

- Wide range in communication & measuring equipment
- Commercial & Industrial applications
- Wireless communications
- PDA and Smartphone

STANDARD SPECIFICATIONS

Parameters	Minimum	Typical	Maximum	Units	Notes
Frequency		32.768		kHz	
Operation Mode	Flexural Mode (Tuning Fork)				
Operating Temperature	-40		+85	°C	
Storage Temperature	-55		+125	°C	
Frequency Tolerance @+25°C	-20		+20	ppm	See options
Temperature Coefficient:	-0.040	-0.036		ppm/T²	
Turn-over temperature:	+20	+25	+30	°C	
Equivalent series resistance (R1)			70	kΩ	
Shunt capacitance (C0)		0.9 ~ 1.2		pF	
Load capacitance (CL)		12.5		pF	See options
Drive Level		0.1	0.5	μW	
Q value	10000	30000			
Aging@25°C±3°C	-3		3	ppm	First year
Insulation Resistance	500			ΜΩ	@ $100 \text{Vdc} \pm 15 \text{V}$

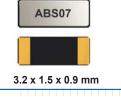
OPTIONS AND PART IDENTIFICATION (left blank if standard)



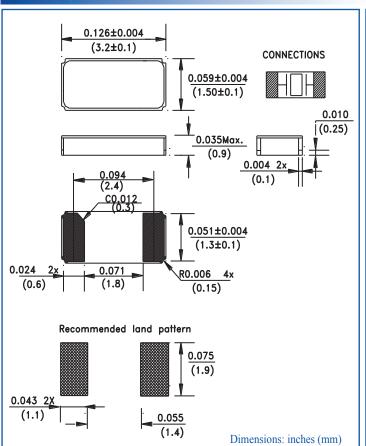


ABS07

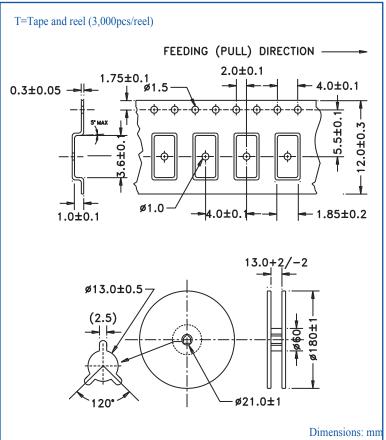




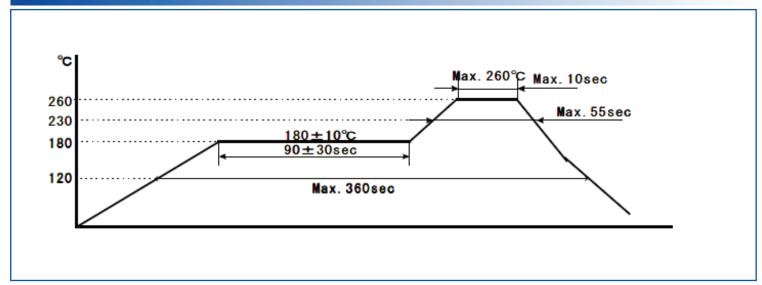
OUTLINE DIMENSIONS



TAPE & REEL



REFLOW PROFILE



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