

# 32.768kHz SMD LOW PROFILE CRYSTAL



2.0 x 1.2 x 0.38mm

**ABS06L**

**Pb** | **RoHS/RoHS II Compliant**

**Moisture Sensitivity Level (MSL) – This product is Hermetically Sealed and not Moisture Sensitive - MSL = N/A: Not Applicable**

➤ **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:**

- Smart Display Credit Cards
- Wide range in communication & measuring equipment
- Commercial & Industrial 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/T <sup>2</sup>	
Turn-over temperature	+20	+25	+30	°C	
Equivalent series resistance (ESR)			100	kΩ	
Load capacitance		12.5		pF	See options
Drive Level		0.1	0.5	μW	
Aging (@ 25°C)	-3		+3	ppm	First year
Insulation Resistance	500			MΩ	@ DC 100±15V

➤ **OPTIONS AND PART IDENTIFICATION:**

(Left blank if standard)

ABS06L - 32.768 kHz -  -  -

Load Capacitance
Blank: 12.5pF
9: 9pF

Contact Abracon for non-standard capacitance

Frequency Tolerance
Blank: ±20ppm
4: ±30ppm

±10ppm tolerance is available. Please contact Abracon for more information.

Packaging
Blank: Bulk
T: Tape & Reel (3000pcs/reel)



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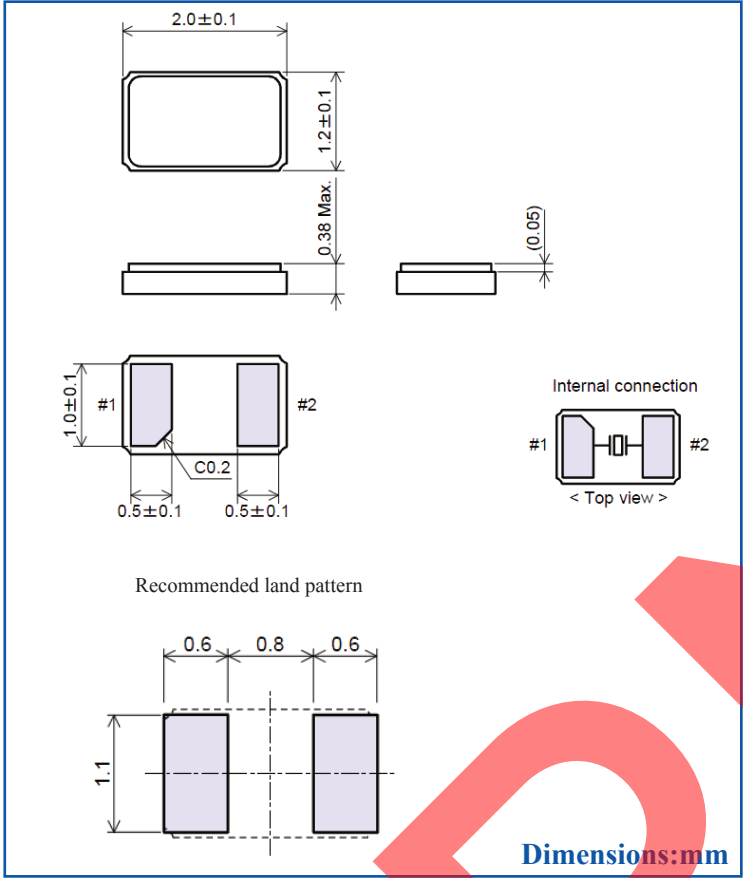


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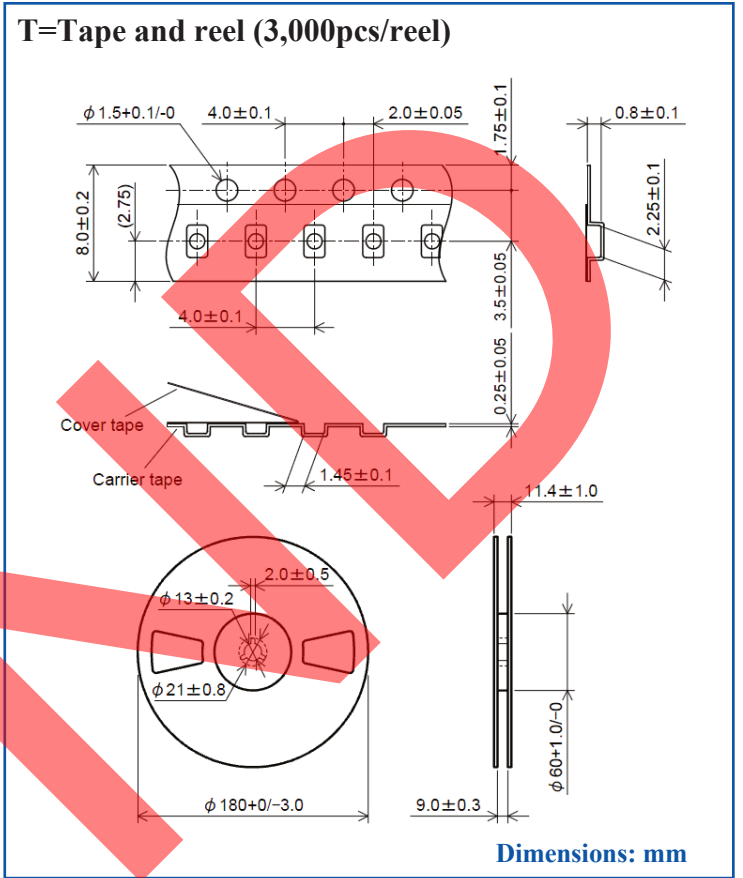
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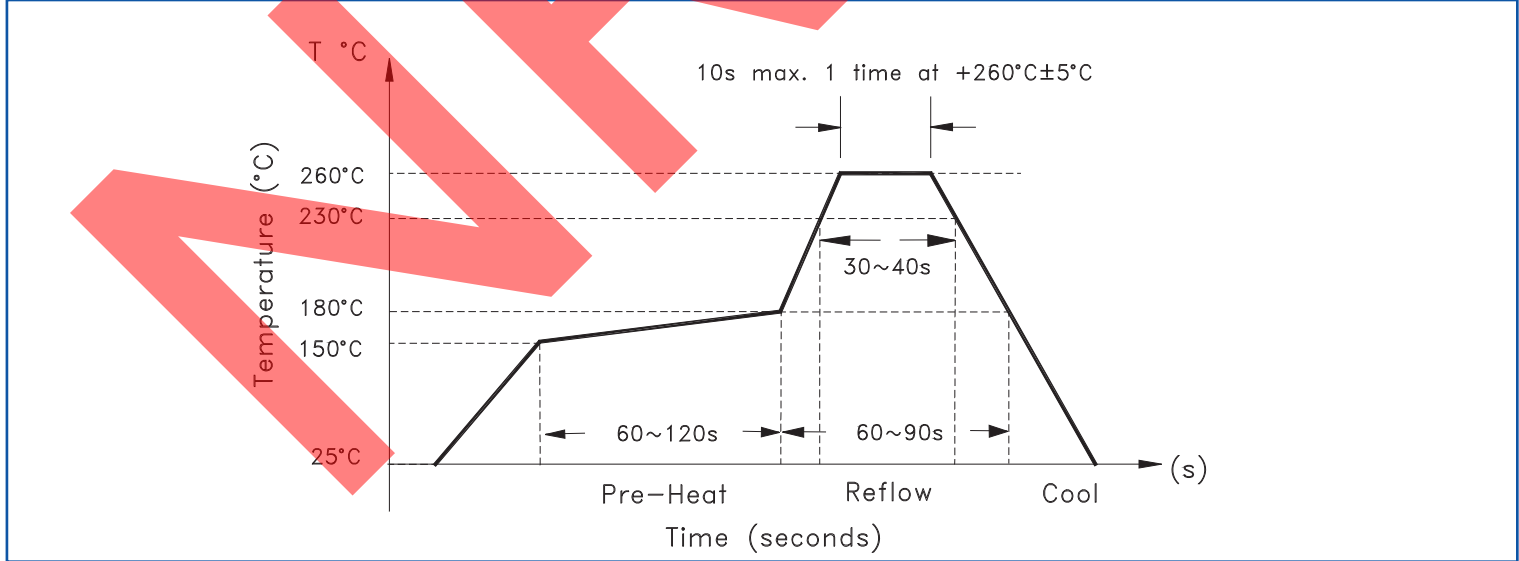
## OUTLINE DRAWING:



## 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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