imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832 Email & Skype: info@chipsmall.com Web: www.chipsmall.com Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



Automotive & Industrial Grade 32.768kHz SMD Low Profile Crystal

Pb RoHS/RoHS II Compliant

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

FEATURES

- PPAP ready and supported
- TS16949 certified production lines

ABS07AIG

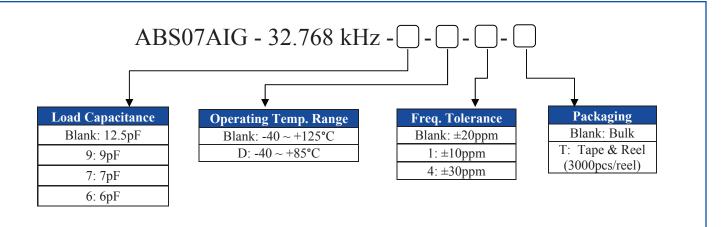
- Miniature size and low profile package: 3.2 x 1.5 x 0.9mm
- AEC-Q200 qualified
- Hermetically sealed ceramic package assures high precision and reliability
- Extended operating temperature range: -40°C to +125°C
- RoHS compliant and Pb free

STANDARD SPECIFICATIONS:



- Navigation
- Car entertainment system
- COTS Military
- Test equipment
- Industrial control
- Medical Electronics (non-life dependent)
- **Parameters** Minimum Typical Maximum Units Notes 32.768 kHz Frequency **Operation Mode** Flexural Mode (Tuning Fork) **Operating Temperature** -40 +125°C °C Storage Temperature -55 +125Frequency Tolerance @+25°C -20 +20ppm See options Temperature Coefficient: -0.040 -0.036 ppm/T² °C +20+25+30Turn-over temperature: Equivalent series resistance (R1) 80 kΩ pF Shunt capacitance (C0) 1.1 Motional capacitance (C1) 4.7 fF 12.5 Load capacitance (CL) pF See options Drive Level 0.5 μW 0.1 10000 30000 O value Aging@25°C 3 -3 ppm First year Insulation Resistance 500 MΩ

OPTIONS AND PART IDENTIFICATION: (left blank if standard)





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• Comfort control

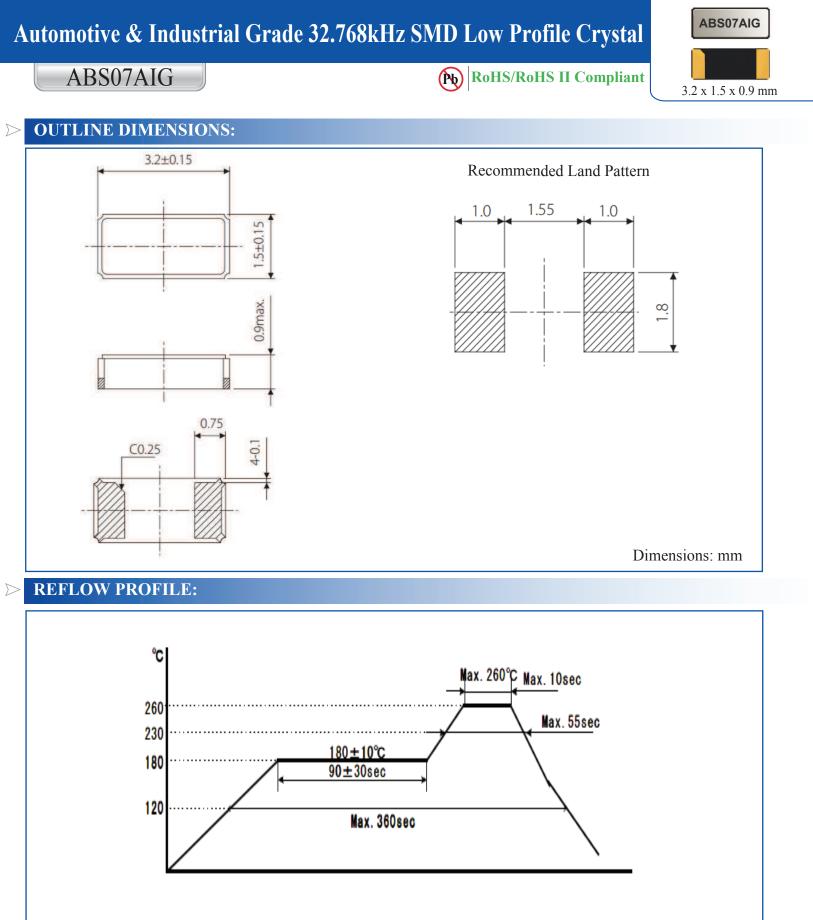
Instrument panel

Industrial automation

• Telematics

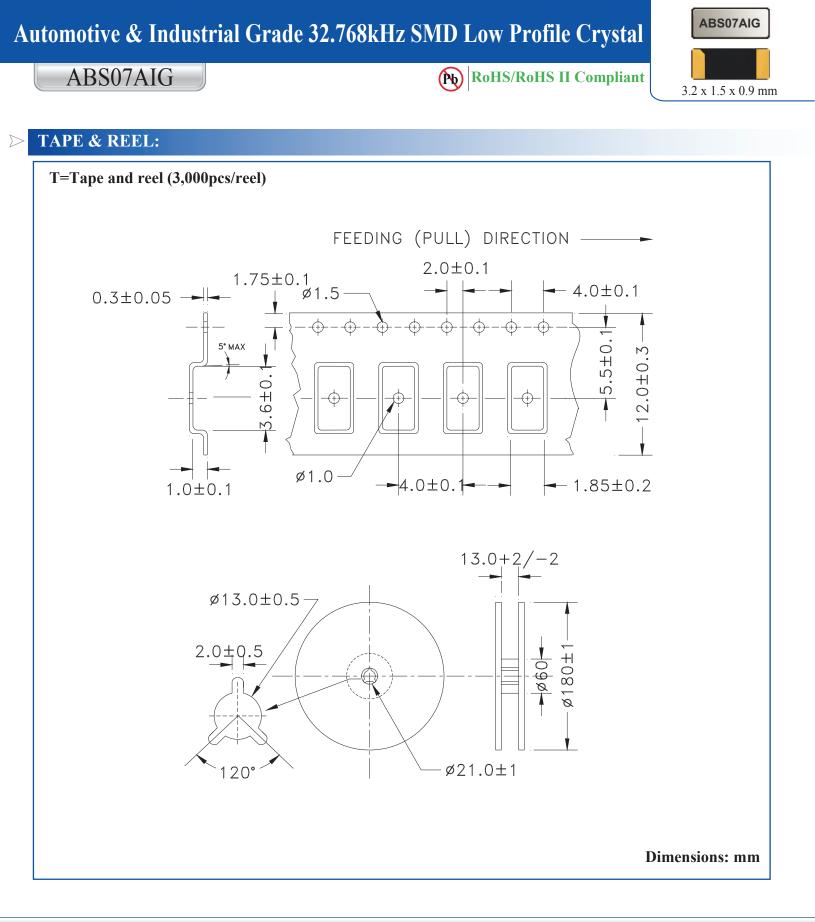


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Pierce Analyzer System (PAS) Advanced Board Characterization Service

Abracon PAS System enables us to offer Automotive, Medical, and Industrial application customers a comprehensive, automated assessment of the Pierce Oscillator loop, in concert with the customers selected Quartz Crystal. The PAS System Circuit Analysis report is ideally suited for PPAP documentation, design history reporting, and overall assurance of a reliable optimized circuit.

Features:

- Circuit characterization; providing best possible match between Quartz Crystal, oscillator loop and associated components
- Eliminates probability of oscillator start-up issues related to inadequate design or marginal component
 performance
- · Eliminates production launch issues related to crystal oscillator based timing circuit
- Solves design margin uncertainty

Deliverables: A detail Report encompassing:

• Stand alone Quartz Crystal characteristics including:

- Motional parameters (Cm, Lm, ESR & C0)
- Narrow Band Frequency Response Plot
- Wide Band Frequency Response Plot
- Admittance versus Susceptance plot
- Frequency dependence versus load capacitance plot
- Oscillator loop characteristics including:
 - Initial frequency accuracy and drive level as seen by the crystal with measured ESR
 - Worst case projected drive level with maximum specified ESR
 - Safety Factor of the oscillator loop under both typical and maximum ESR
 - Recommendation on proper component selection (C1, C2 & Rs when applicable) for best compromise with respect to Safety Factor and Frequency accuracy
 - Recommendation on the Abracon Crystal part # with proper plating load and other key attributes to enable the most robust design, specific to the µcontroller/processor implemented

Ordering information:

PAS-BC1WK	Analysis & Report with 1-week maximum lead-time
PAS-BC2WK	Analysis & Report with 2-week maximum lead-time
PAS-BC3WK	Analysis & Report with 3-week maximum lead-time

For detailed information, click here:



For additional information, please contact at: tech-support@abracon.com



