# High Reliability Crystals


## AEC-Q200, TS16949 Certified, and PPAP ready
## Automotive and Industrial Grade kHz and MHz

Abracon has introduced 4 new series of miniature SMD automotive & industrial grade kHz and MHz crystals designed and manufactured for high reliability: **ABS07AIG, ABM11AIG, ABM10AIG and ABM8AIG.**

These crystals are AEC-Q200 qualified and produced from TS16949 certified production lines. They are available in compact hermetically sealed SMD ceramic packages and are built to operate at **-40°C to +125°C.**

These crystals are ideal to provide timing solutions in a wide range of automotive and industrial applications, such as GPS navigation system, display and audio system, instrument panel, industrial control, automation system, and applications where high reliability is a must.

| Series | Frequency Range | Frequency Tolerance@25° C | Frequency Stability | Operating Temperature Rang | Package Size |
|---|---|---|---|---|---|
| **ABS07AIG** | 32.768kHz | ±10/±20/±30ppm | - | -40°C to +85 °C<br>-40°C to +125 °C | 3.2x1.5x0.9mm |
| **ABM11AIG** | 16 to 50MHz | ±10/±20/±30 /±50ppm | ±50/±100ppm | -40°C to +85 °C | 2.0x1.6x0.55mm |
| **ABM10AIG** | 12 to 62.5MHz | | | -40°C to +105 °C | 2.5x2.0x0.55mm |
| **ABM8AIG** | 10 to 54MHz | | | -40°C to +125 °C | 3.2x2.5x0.8mm |

## Features:

- PPAP ready and supported
- TS16949 certified production lines
- Miniature size and low profile package
- 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

## Application:

- Navigation
- Comfort control
- Car entertainment system
- Instrument panel
- COTS Military
- Medical Electronics (non-life dependent)
- Test equipment
- Telematics
- Industrial control
- Industrial automation

**Datasheet links:**

- ABS07AIG http://www.abracon.com/AIGcrystals/ABS07AIG.pdf
- ABM11AIG http://www.abracon.com/AIGcrystals/ABM11AIG.pdf
- ABM10AIG http://www.abracon.com/AIGcrystals/ABM10AIG.pdf
- ABM8AIG http://www.abracon.com/AIGcrystals/ABM8AIG.pdf

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