32.768kHz SMD LOW PROFILE CRYSTAL

ABS05

RoHS/RoHS II compliant

1.6 x 1.0 x 0.5mm

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

FEATURES:

- 0.5mm height ideal for high density circuit boards
- Ceramic package offers excellent environmental & heat resistance
- \bullet 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

| 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 | Standard (See options if other than STD) |
| Temperature Coefficient: | -0.04 | -0.03 | -0.02 | ppm/T ² | |
| Turn-over temperature: | +20 | +25 | +30 | °C | |
| Equivalent series resistance (ESR) | | | 90 | kΩ | |
| Shunt capacitance (C0) | | 1.3 | | pF | |
| Load capacitance | | 12.5 | • | pF | Standard (See options if other than STD) |
| Drive Level | | | 0.5 | μW | |
| Aging @ +25°C±3°C | -3 | | +3 | ppm | First Year |
| Insulation Resistance | 500 | | | MΩ | @ $100Vdc \pm 15V$ |

OPTIONS AND PART IDENTIFICATION:





5101 Hidden Creek Ln Spicewood TX 78669 Phone: 512-371-6159 | Fax: 512-351-8858 For terms and conditions of sales, please visit: www.abracon.com

REVISED: 07-29-20

ABRACON IS ISO9001-2015 CERTIFIED

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ATTENTION: Abracon LLC's 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-dependent 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 LLC is required. Please contact Abracon LLC for more information.



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