CERAMIC SMD ULTRA MINIATURE QUARTZ CRYSTAL

ABM11

***RoHS COMPLIANT**

2.0 X 1.6 X 0.45mm

FEATURES:

- RoHS compliant
- Suitable for reflow
- Tight stability available
- Ceramic package seam welded sealing assures high precision and reliability.

APPLICATIONS:

- Blue-tooth, Wireless applications
- Computers, Modems, Microprocessors
- Communication, Test equipment
- High density applications
- PCMCIA

STANDARD SPECIFICATIONS:

PARAMETERS	
Frequency Range	20.000 MHz - 80.000 MHz*
Operation Mode	Fundamental
Operating Temperature	- 10°C to + 60°C (see options)
Storage Temperature	- 40°C to + 85°C
Frequency Tolerance @ 25°C	± 30 ppm max. (see options)
Frequency Stability	± 50 ppm max. (see options)
Equivalent Series Resistance	See table 1
Shunt Capacitance C0	7 pF max.
Load Capacitance CL	10 pF (see options)
Drive Level	200 µW max., 10 µW correlation
Aging (First Year) @ 25°C ± 3°C	± 5ppm max.
Insulation Resistance	500 MΩ min at 100Vdc ± 15 Vdc

**please refer to list of developed frequencies, contact factory for additional frequencies*

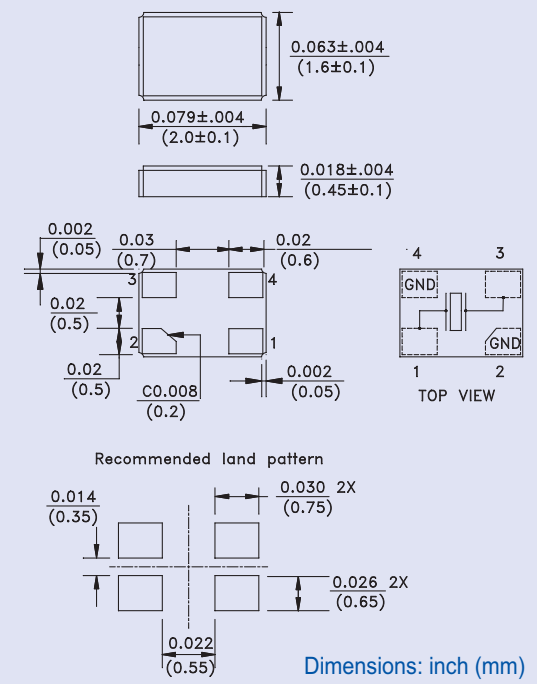
TABLE 1	
FREQ (MHz)	ESR (Ω)max.
20.0 - 25.0	200
25.0 - 40.0	100
40.0 - 80.0	60

Developed Frequency List	
18.000000	26.000000
20.000000	27.000000
22.000000	27.003800
24.545450	28.636363

MARKING:

- XX.X (Frequency)
- A ZYX (ZY:date code, e.g. L2; Z: month A to L; Y: last digit of year; X: Traceability code)

OUTLINE DRAWING:



OPTIONS AND PART IDENTIFICATION (Left blank if standard)*:

ABM11 - Frequency - CL - ESR - Temperature - Tolerance - Stability - Packaging

Load Capacitance option:
Please specify **CL in pF** or **S** for Series (min 10 pF)

ESR option:
RXXX (value in ohms)

Packaging option:
T for Tape and Reel (1,000pcs/reel)

Temperature options:
B for -20°C to +70°C
D for -40°C to +85°C

Freq Tolerance options:
7 for ± 15 ppm
2 for ± 20 ppm
5 for ± 50 ppm

Freq Stability options:
U for ± 10 ppm
G for ± 15 ppm
X for ± 20 ppm
Y for ± 30 ppm
Z for ± 100 ppm

*not all combinations/configurations are available, please contact factory for availability.

ABRACON CORPORATION

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