

CERAMIC SMD ULTRA MINIATURE QUARTZ CRYSTAL

ABM11



2.0 x 1.6 x 0.59 mm



RoHS
Compliant

- FEATURES:
- 2.0 x 1.6 x 0.9mm ultra miniature package.
 - IR reflow capable.
 - Seam sealed ceramic package with metal lid assures high precision and reliability.

- APPLICATIONS:
- Cellular telephones, Pagers.
 - Communication and Test equipment.
 - High Density applications.
 - PCMCIA and wireless applications.

STANDARD SPECIFICATIONS:

PARAMETERS	
ABRACON P/N	ABM11 Series
Frequency Range	20.000 MHz to 50.000 MHz
Operation Mode	Fundamental
Operating Temperature	-10°C to +60°C (see options)
Storage Temperature	-40°C to +85°C
Frequency Tolerance*	± 30 ppm max. (see options)
Frequency Stability over the Operating Temperature (Ref to + 25°C)	± 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	100 µW max., 10 µW typical
Aging @ 25° C per year:	± 5ppm max.
Insulation Resistance	500 MΩ min at 100Vdc ± 15 Vdc

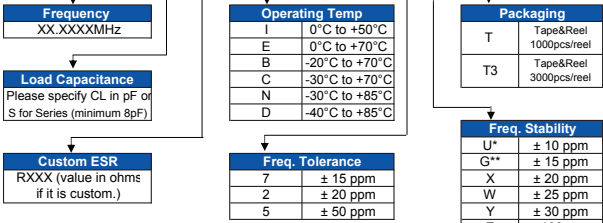
TABLE 1- Standard ESR	
Frequency (MHz)	ESR(Ω) max
20.000 - 23.999	120
24.000 - 29.999	100
30.000 - 37.999	80
38.000 - 50.000	60

(Note)*: Tolerance and Temp stability do not include Mechanical, Environmental, and Aging frequency shift.

OPTIONS AND PART IDENTIFICATION:

(Left blank if standard)

ABM11 - Frequency - - R - - - -



* Temp option I and -10 to +60°C only
** Temp option I, E, B, C, N, and -10 to +60°C only

ABRACON IS
ISO 9001 / QS 9000
CERTIFIED



Visit www.abracon.com for Terms & Conditions of Sale Revised: 11.25.09
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