

CERAMIC SMD ULTRA MINIATURE QUARTZ CRYSTAL

ABM10

2.5 x 2.0 x 0.5 mm



RoHS
Compliant

ABM10

FEATURES:

- Suitable for RoHS reflow profile
- Tight stability available ± 10 ppm over -10 to +60°C
- Seam sealed ceramic package assures high precision and reliability

APPLICATIONS:

- Blue-tooth, Wireless applications
- Computers, Modems, Microprocessors
- Communication, Test equipment
- High density applications
- PCMCIA
- Portable radios and MP3 players

STANDARD SPECIFICATIONS:

Parameters	Minimum	Typical	Maximum	Units	Notes
Frequency Range	16.000	----	55.000	MHz	Fundamental
Operation Mode	Fundamental				
Operating Temperature	-10	----	+60	°C	See options
Storage Temperature	-40	----	+85	°C	
Frequency Tolerance @+25°C			± 20	ppm	See options
Frequency Stability over the Operating Temperature (ref. to +25°C)			± 30	ppm	See options
Equivalent series resistance (R1)	See table 1 below			Ω	
Shunt capacitance (C0)			7	pF	
Load capacitance (CL)	10			pF	Standard (See options if other than STD)
Drive Level		10	100	μ W	
Aging@25°C \pm 3°C			± 5	ppm	First year
Insulation Resistance	500			M Ω	@ 100Vdc \pm 15V

Table 1 – standard ESR

Frequency (MHz)	ESR(Ω) max.
16.000 – 19.999	150
20.000 – 29.999	100
30.000 – 55.000	70

OPTIONS & PART IDENTIFICATION:

(Left blank if standard)

ABM10 - [] MHz - [] - [] - [] - []

Frequency in MHz
Please specify the frequency in MHz.
e.g. 16.000MHz

Load Capacitance (pF)
Please specify CL in pF or S for series (8pF min.)

Custom ESR if other than standard
R□
□: Specify a value in Ω (e.g.: R40)

Freq. Tolerance
1: ± 10 ppm
7: ± 15 ppm
3: ± 25 ppm
4: ± 30 ppm

Packaging
Blank: Bulk
T: 1000pcs/reel
T3: 3000pcs/reel

Operating Temp.	± 10 ppm	± 15 ppm	± 20 ppm	± 30 ppm	± 50 ppm	± 100 ppm
0°C ~ +50°C	I10	I15	I20	I30	I50	I100
-10°C ~ +60°C	A10	A15	A20	STD	A50	A100
-20°C ~ +70°C	X	E15	E20	E30	E50	E100
-30°C ~ +70°C	X	C15	C20	C30	C50	C100
-30°C ~ +85°C	X	N15	N20	N30	N50	N100
-40°C ~ +85°C	X	X	D20	D30	D50	D100
-40°C ~ +105°C	X	X	X	X	J50	J100
-40°C ~ +125°C	X	X	X	X	K50	K100

Contact Abracon for tighter frequency stability

ABRACON IS
ISO9001:2008
CERTIFIED



Visit www.abracon.com for Terms & Conditions of Sale **Revised: 09.27.10**

30332 Esperanza, Rancho Santa Margarita, California 92688

tel 949-546-8000 | fax 949-546-8001 | www.abracon.com

