

CERAMIC SMD MICRO MINIATURE MICROPROCESSOR CRYSTAL

ABM7

Pb in Glass
(exempt per RoHS 2002/95/EC Annex (5))

RoHS
Compliant

ABM7

6.0 x 3.5 x 1.4mm

FEATURES:

- Low in height (1.4 mm max.)
- Ceramic package assures high reliability
- Small size SMD, suitable for high density applications
- Superior heat-resistant glass sealing
- Wide operating temperature available

APPLICATIONS:

- Computers, Modems, Communication equipment
- Thin equipment
- Industrial wide temperature applications

STANDARD SPECIFICATIONS:

Parameters	Minimum	Typical	Maximum	Units	Notes
Frequency Range	8.000		50.000 (*)		Fundamental
Operation mode	8.000		39.999999	MHz	Fundamental AT-cut (Standard)
	40.000		80.000		3 rd OT AT-cut (Standard)
	40.000		50.000		Fundamental AT-cut (See options)
Operating Temperature	-10		+60	°C	See options
Storage Temperature	-40		+90	°C	
Frequency Tolerance @+25°C			±50	ppm	See options
Frequency Stability over the Operating Temperature (ref. to +25°C)			±50	ppm	See options
Equivalent series resistance	See table 1 below			Ω	
Shunt capacitance (C0)			7	pF	
Load capacitance (CL)	18			pF	See options
Drive Level		10	100	μW	
Aging@25°C±3°C			±5	ppm	First year
Insulation Resistance	500			MΩ	@ 100Vdc

Table 1

Frequency (MHz)	ESR(Ω) max.	Operation Mode
8.000 – 9.999	80	Fundamental
10.000 – 15.999	60	Fundamental
16.000 – 50.000	50	Fundamental
40.000 – 80.000	70	3 rd Overtone

(*) Frequency above 40MHz based on availability.
Please contact ABRACON

STANDARD SPECIFICATIONS:

ABM7- MHz - - - - - - -

Frequency in MHz
e.g. 14.31818MHz
14.31818MHz
26.000MHz

Load Capacitance (pF)
Please specify CL in pF or
S for series (8 to 33pF)
Please contact ABRACON
for other values

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

Operating Temp.
E: 0°C ~ +70°C
B: -20°C ~ +70°C
C: -30°C ~ +70°C
N: -30°C ~ +85°C
D: -40°C ~ +85°C
J(**): -40°C ~ +105°C
K(**): -40°C ~ +125°C
L(**): -55°C to +125°C

Freq. Tolerance
1: ± 10 ppm
7: ± 15 ppm
2: ± 20 ppm
3: ± 25 ppm
4: ± 30 ppm

Freq. Stability
U: ± 10 ppm(*)
G: ± 15 ppm(**)
X: ± 20 ppm
W: ± 25 ppm
Y: ± 30 ppm
H: ± 35 ppm
Q: ± 100 ppm

(*) -10°C to
60°C only.
(**) Contact ABRACON
for availability for
-40°C to +85°C

Packaging
Blank: Bulk
T: 1k or 2kpcs/reel
T2: 250pcs/reel

Mode
F: Fund AT for
>40MHz

(**) ±100 ppm only



Visit www.abracon.com for Terms & Conditions of Sale **Revised: 09.23.10**
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