

# CERAMIC SMD MICRO MINIATURE MICROPROCESSOR CRYSTAL

**ABM7**

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

**RoHS/RoHS II Compliant**



6.0 x 3.5 x 1.4mm

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

## 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		39.999999	MHz	Fundamental AT-cut (Standard)
	40.000		80.000		3 <sup>rd</sup> 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		+50	ppm	See options
Frequency Stability over the Operating Temperature (ref. to +25°C)	-50		+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

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

Table 1

Frequency (MHz)	ESR(Ω) max.	Operation Mode
8.000 – 9.999	100	Fundamental
10.000 – 11.999	80	Fundamental
12.000 – 15.999	60	Fundamental
16.000 – 50.000	50	Fundamental
40.000 – 80.000	70	3 <sup>rd</sup> Overtone