

CERAMIC SMD CRYSTAL

ABM3B



5.0 X 3.2 X 1.1mm



RoHS
Compliant

➤ **FEATURES:**

- Available for fundamental mode and 3rd over tone mode (up to 125MHz)
- Suitable for RoHS reflow
- Available for tight stability
- Seam sealed package assures high reliability

➤ **APPLICATIONS:**

- Cellular telephones, Pagers.
- Com munication and Test equipment.
- High Density applications.
- PCMCIA and wireless applications.

➤ **OPTIONS AND PART IDENTIFICATION (left blank if standard)**

ABM3B – xxxxxMHZ-10-1U-T	10pF	10/10ppm	-10/+60°C	1K/Reel
ABM3B – xxxxxMHZ-B2-T	18pF	20/50ppm	-20/+70°C	1K/Reel
ABM3B – xxxxxMHZ-18-N1G-T	18pF	10/15ppm	-30/+85C	1K/Reel
ABM3B – xxxxxMHZ-D1X-T	18pF	10/20ppm	-40/+85°C	1K/Reel
ABM3B – xxxxxMHZ-D2W-T	18pF	20/25ppm	-40/+85°C	1K/Reel
ABM3B – xxxxxMHZ-D4-T	18pF	30/50ppm	-40/+85°C	1K/Reel
ABM3B – xxxxxMHZ-D4H-T	18pF	30/35ppm	-40/+85°C	1K/Reel

➤ **STANDARD SPECIFICATIONS:**

PARAMETERS	
ABRACON P/N	ABM3B Series
Frequency Range	8.0 MHz - 50.0 MHz (Fundamental) 50.1 MHz - 125 MHz (3rd overtone)
Operation Mode	Fundamental or 3rd overtone
Operating Temperature	-10°C to +60°C (see options)
Storage Temperature	-40°C to +85°C
Frequency Tolerance @ +25°C	± 50 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	18 pF (see options)
Drive Level	100 µW max., 10 µW typical
Aging (First Year) @ 25°C ± 3°C	± 5ppm max.
Insulation Resistance	500 MΩ min at 100Vdc ± 15 V

TABLE 1- Standard ESR

Frequency (MHz)	ESR(Ω) max	Frequency (MHz)	ESR(Ω) max
8.000 - 9.999 (Fund.)	200	16.000 - 50.000 (Fund.)	50
10.000 -11.999 (Fund.)	100	50.001 - 80.000 (3rd OT)	60
12.000 - 15.999 (Fund.)	70	80.001 - 125.000 (3rd OT)	80

ABRACON IS
ISO9001:2008
CERTIFIED



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CORPORATION

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