ABRACON CORPORATION — The Power of Linking Together

Crystals

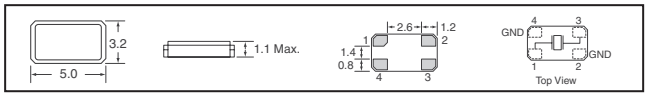
Digi-Reel® RoHS COMPLIANT

ABM3 Series — 5.0 x 3.2 SMD Crystals *(Cont.)*

Freq-uency (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	50	Digi-Key Part No.	T & R Pricing 1,000	Abracon Part No.
18.43200	535-9104-1-ND	2.25	1.95	1.71	535-9104-2-ND	836.47	ABM3-18.432MHZ-B2-T
20.00000	535-9105-1-ND	2.25	1.95	1.71	535-9105-2-ND	836.47	ABM3-20.000MHZ-B2-T
24.00000	535-9106-1-ND	2.11	1.83	1.60	535-9106-2-ND	785.51	ABM3-24.000MHZ-B2-T
24.57600	535-9107-1-ND	2.11	1.83	1.60	535-9107-2-ND	785.51	ABM3-24.576MHZ-B2-T
25.00000	535-9108-1-ND	2.11	1.83	1.60	535-9108-2-ND	785.51	ABM3-25.000MHZ-B2-T
27.00000	535-9109-1-ND	2.11	1.83	1.60	535-9109-2-ND	785.51	ABM3-27.000MHZ-B2-T
28.63630	535-9110-1-ND	2.11	1.83	1.60	535-9110-2-ND	785.51	ABM3-28.6363MHZ-B2-T
29.49120	535-9111-1-ND	2.11	1.83	1.60	535-9111-2-ND	785.51	ABM3-29.4912MHZ-B2-T
30.00000	535-9112-1-ND	2.11	1.83	1.60	535-9112-2-ND	785.51	ABM3-30.000MHZ-B2-T
33.00000	535-9113-1-ND	2.11	1.83	1.60	535-9113-2-ND	785.51	ABM3-33.000MHZ-B2-T
40.00000	535-9114-1-ND	2.11	1.83	1.60	535-9114-2-ND	785.51	ABM3-40.000MHZ-B2-T
48.00000	535-9115-1-ND	2.11	1.83	1.60	535-9115-2-ND	785.51	ABM3-48.000MHZ-B2-T
NEW! ABM3-xxxMHZ-D2Y-T NEW!							
8.000	535-10630-1-ND	1.79	1.56	1.37	535-10630-2-ND	669.18	ABM3-8.000MHZ-D2Y-T
10.0000	535-10631-1-ND	1.79	1.56	1.37	535-10631-2-ND	669.18	ABM3-10.0000MHZ-D2Y-T
11.0592	535-10632-1-ND	1.79	1.56	1.37	535-10632-2-ND	669.18	ABM3-11.0592MHZ-D2Y-T
11.2896	535-10633-1-ND	1.79	1.56	1.37	535-10633-2-ND	669.18	ABM3-11.2896MHZ-D2Y-T
12.000	535-10634-1-ND	1.79	1.56	1.37	535-10634-2-ND	669.18	ABM3-12.000MHZ-D2Y-T
12.288	535-10635-1-ND	1.79	1.56	1.37	535-10635-2-ND	669.18	ABM3-12.288MHZ-D2Y-T
14.31818	535-10636-1-ND	1.79	1.56	1.37	535-10636-2-ND	669.18	ABM3-14.31818MHZ-D2Y-T
14.7456	535-10637-1-ND	1.79	1.56	1.37	535-10637-2-ND	669.18	ABM3-14.7456MHZ-D2Y-T
16.000	535-10638-1-ND	1.79	1.56	1.37	535-10638-2-ND	669.18	ABM3-16.000MHZ-D2Y-T
18.432	535-10639-1-ND	1.79	1.56	1.37	535-10639-2-ND	669.18	ABM3-18.432MHZ-D2Y-T
19.6608	535-10640-1-ND	1.79	1.56	1.37	535-10640-2-ND	669.18	ABM3-19.6608MHZ-D2Y-T
20.000	535-10641-1-ND	1.79	1.56	1.37	535-10641-2-ND	669.18	ABM3-20.000MHZ-D2Y-T
22.1184	535-10642-1-ND	1.68	1.46	1.28	535-10642-2-ND	628.41	ABM3-22.1184MHZ-D2Y-T
24.000	535-10643-1-ND	1.68	1.46	1.28	535-10643-2-ND	628.41	ABM3-24.000MHZ-D2Y-T
24.576	535-10644-1-ND	1.68	1.46	1.28	535-10644-2-ND	628.41	ABM3-24.576MHZ-D2Y-T
25.000	535-10645-1-ND	1.68	1.46	1.28	535-10645-2-ND	628.41	ABM3-25.000MHZ-D2Y-T
27.000	535-10646-1-ND	1.68	1.46	1.28	535-10646-2-ND	628.41	ABM3-27.000MHZ-D2Y-T
30.000	535-10647-1-ND	1.68	1.46	1.28	535-10647-2-ND	628.41	ABM3-30.000MHZ-D2Y-T
32.000	535-10648-1-ND	1.68	1.46	1.28	535-10648-2-ND	628.41	ABM3-32.000MHZ-D2Y-T
33.000	535-10649-1-ND	1.68	1.46	1.28	535-10649-2-ND	628.41	ABM3-33.000MHZ-D2Y-T
40.000	535-10650-1-ND	1.85	1.61	1.41	535-10650-2-ND	691.25	ABM3-40.000MHZ-D2Y-F-T
48.000	535-10651-1-ND	1.85	1.61	1.41	535-10651-2-ND	691.25	ABM3-48.000MHZ-D2Y-F-T
50.000	535-10652-1-ND	1.85	1.61	1.41	535-10652-2-ND	691.25	ABM3-50.000MHZ-D2Y-F-T

ABM3B Series — 5.0 x 3.2 SMD Crystals

Dim. in mm.



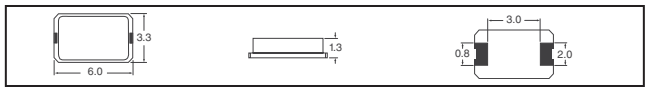
Series Specifications:	Frequency Stability	Frequency Tolerance	Operating Temperature	Load Capacitance
ABM3B-xxxMHZ-10-1-U-T	±10ppm	±10ppm	-10°C ~ 60°C	10.0pF
ABM3B-xxxMHZ-B2-T	±50ppm	±20ppm	-20°C ~ 70°C	18.0pF
ABM3B-xxxMHZ-10-D4	±50ppm	±30ppm	-40°C ~ 85°C	10.0pF
ABM3B-xxxMHZ-R60-D1W-T	±25ppm	±10ppm	-40°C ~ 85°C	18.0pF

Freq-uency (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	50	Digi-Key Part No.	T & R Pricing 1,000	Abracon Part No.
ABM3B-xxxMHZ-10-1-U-T Series							
8.00000	535-9721-1-ND	2.82	2.45	2.15	535-9721-2-ND	1053.95	ABM3B-8.000MHZ-10-1-U-T
10.00000	300-8195-1-ND	2.82	2.45	2.15	300-8195-2-ND	1053.95	ABM3B-10.000MHZ-10-1-U-T
11.05920	300-8196-1-ND	2.82	2.45	2.15	300-8196-2-ND	1053.95	ABM3B-11.0592MHZ-10-1-U-T
12.00000	300-8197-1-ND	2.82	2.45	2.15	300-8197-2-ND	1053.95	ABM3B-12.000MHZ-10-1-U-T
12.28800	300-8198-1-ND	2.82	2.45	2.15	300-8198-2-ND	1053.95	ABM3B-12.288MHZ-10-1-U-T
12.80000	300-8199-1-ND	2.82	2.45	2.15	300-8199-2-ND	1053.95	ABM3B-12.800MHZ-10-1-U-T
13.00000	300-8200-1-ND	2.82	2.45	2.15	300-8200-2-ND	1053.95	ABM3B-13.000MHZ-10-1-U-T
13.50000	300-8201-1-ND	2.82	2.45	2.15	300-8201-2-ND	1053.95	ABM3B-13.500MHZ-10-1-U-T
13.56000	300-8202-1-ND	2.82	2.45	2.15	300-8202-2-ND	1053.95	ABM3B-13.560MHZ-10-1-U-T
14.40000	300-8203-1-ND	2.82	2.45	2.15	300-8203-2-ND	1053.95	ABM3B-14.400MHZ-10-1-U-T
14.74560	300-8204-1-ND	2.82	2.45	2.15	300-8204-2-ND	1053.95	ABM3B-14.7456MHZ-10-1-U-T
15.36000	300-8205-1-ND	2.82	2.45	2.15	300-8205-2-ND	1053.95	ABM3B-15.360MHZ-10-1-U-T
16.00000	300-8206-1-ND	2.82	2.45	2.15	300-8206-2-ND	1053.95	ABM3B-16.000MHZ-10-1-U-T
16.38400	300-8207-1-ND	2.07	1.77	1.51	300-8207-2-ND	978.67	ABM3B-16.384MHZ-10-1-U-T
16.80000	300-8208-1-ND	2.82	2.45	2.15	300-8208-2-ND	1053.95	ABM3B-16.800MHZ-10-1-U-T
18.43200	300-8209-1-ND	2.82	2.45	2.15	300-8209-2-ND	1053.95	ABM3B-18.432MHZ-10-1-U-T
19.20000	300-8210-1-ND	2.82	2.45	2.15	300-8210-2-ND	1053.95	ABM3B-19.200MHZ-10-1-U-T
19.44000	300-8211-1-ND	2.82	2.45	2.15	300-8211-2-ND	1053.95	ABM3B-19.440MHZ-10-1-U-T
19.68000	300-8212-1-ND	2.82	2.45	2.15	300-8212-2-ND	1053.95	ABM3B-19.680MHZ-10-1-U-T
19.80000	300-8213-1-ND	2.82	2.45	2.15	300-8213-2-ND	1053.95	ABM3B-19.800MHZ-10-1-U-T
20.00000	300-8214-1-ND	2.82	2.45	2.15	300-8214-2-ND	1053.95	ABM3B-20.000MHZ-10-1-U-T
22.00000	300-8215-1-ND	2.65	2.30	2.02	300-8215-2-ND	989.75	ABM3B-22.000MHZ-10-1-U-T
24.00000	300-8216-1-ND	2.65	2.30	2.02	300-8216-2-ND	989.75	ABM3B-24.000MHZ-10-1-U-T
24.57600	300-8217-1-ND	2.65	2.30	2.02	300-8217-2-ND	989.75	ABM3B-24.576MHZ-10-1-U-T
25.00000	300-8218-1-ND	2.65	2.30	2.02	300-8218-2-ND	989.75	ABM3B-25.000MHZ-10-1-U-T
26.00000	300-8219-1-ND	2.65	2.30	2.02	300-8219-2-ND	989.75	ABM3B-26.000MHZ-10-1-U-T
28.63636	300-8220-1-ND	2.65	2.30	2.02	300-8220-2-ND	989.75	ABM3B-28.63636MHZ-10-1-U-T
29.49120	300-8221-1-ND	2.65	2.30	2.02	300-8221-2-ND	989.75	ABM3B-29.4912MHZ-10-1-U-T
30.00000	300-8222-1-ND	2.65	2.30	2.02	300-8222-2-ND	989.75	ABM3B-30.000MHZ-10-1-U-T
40.00000	300-8223-1-ND	2.65	2.30	2.02	300-8223-2-ND	989.75	ABM3B-40.000MHZ-10-1-U-T
44.00000	300-8224-1-ND	2.65	2.30	2.02	300-8224-2-ND	989.75	ABM3B-44.000MHZ-10-1-U-T
48.00000	300-8225-1-ND	2.65	2.30	2.02	300-8225-2-ND	989.75	ABM3B-48.000MHZ-10-1-U-T
ABM3B-xxxMHZ-B2-T Series							
8.00000	535-9720-1-ND	2.25	1.95	1.71	535-9720-2-ND	836.47	ABM3B-8.000MHZ-B2-T
12.00000	535-9116-1-ND	2.25	1.95	1.71	535-9116-2-ND	836.47	ABM3B-12.000MHZ-B2-T
12.28800	535-9117-1-ND	2.25	1.95	1.71	535-9117-2-ND	836.47	ABM3B-12.288MHZ-B2-T
13.00000	535-9118-1-ND	2.25	1.95	1.71	535-9118-2-ND	836.47	ABM3B-13.000MHZ-B2-T
13.82400	535-9119-1-ND	2.25	1.95	1.71	535-9119-2-ND	836.47	ABM3B-13.824MHZ-B2-T
14.31818	535-9120-1-ND	2.25	1.95	1.71	535-9120-2-ND	836.47	ABM3B-14.31818MHZ-B2-T
15.36000	535-9121-1-ND	2.25	1.95	1.71	535-9121-2-ND	836.47	ABM3B-15.360MHZ-B2-T
16.00000	535-9122-1-ND	2.25	1.95	1.71	535-9122-2-ND	836.47	ABM3B-16.000MHZ-B2-T
16.38400	535-9123-1-ND	2.25	1.95	1.71	535-9123-2-ND	836.47	ABM3B-16.384MHZ-B2-T
18.43200	535-9124-1-ND	2.25	1.95	1.71	535-9124-2-ND	836.47	ABM3B-18.432MHZ-B2-T
20.00000	535-9125-1-ND	2.25	1.95	1.71	535-9125-2-ND	836.47	ABM3B-20.000MHZ-B2-T
24.00000	535-9126-1-ND	2.11	1.83	1.60	535-9126-2-ND	785.51	ABM3B-24.000MHZ-B2-T
24.57600	535-9127-1-ND	2.11	1.83	1.60	535-9127-2-ND	785.51	ABM3B-24.576MHZ-B2-T
25.00000	535-9128-1-ND	2.11	1.83	1.60	535-9128-2-ND	785.51	ABM3B-25.000MHZ-B2-T
27.00000	535-9129-1-ND	2.11	1.83	1.60	535-9129-2-ND	785.51	ABM3B-27.000MHZ-B2-T
30.00000	535-9130-1-ND	2.11	1.83	1.60	535-9130-2-ND	785.51	ABM3B-30.000MHZ-B2-T
32.00000	535-9131-1-ND	2.11	1.83	1.60	535-9131-2-ND	785.51	ABM3B-32.000MHZ-B2-T
40.00000	535-9132-1-ND	2.11	1.83	1.60	535-9132-2-ND	785.51	ABM3B-40.000MHZ-B2-T
48.00000	535-9133-1-ND	2.11	1.83	1.60	535-9133-2-ND	785.51	ABM3B-48.000MHZ-B2-T
ABM3B-xxxMHZ-10-D4 Series — Crystals for RF Transceivers							
12.18750	535-9698-1-ND	2.82	2.45	2.15	535-9698-2-ND	434.97	ABM3B-12.1875MHZ-10-D4
13.06250	535-9699-1-ND	2.82	2.45	2.15	535-9699-2-ND	1053.95	ABM3B-13.0625MHZ-10-D4
ABM3B-xxxMHZ-R60-D1W-T Series — Zigbee Specification Crystal							
24.00000	535-9700-1-ND‡	2.31	2.01	1.76	535-9700-2-ND‡	864.06	ABM3B-24.000MHZ-R60-D1W-T

‡ See data sheet for electrical specifications

ABM7 Series — 6.0 x 3.3 SMD Crystals

Dim. in mm.

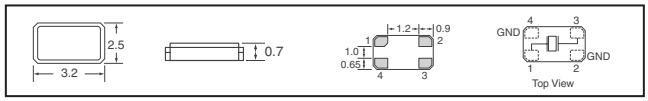


Specifications: • **Frequency Stability:** ±30ppm, -40°C ~ 85°C • **Frequency Tolerance:** ±20ppm • **Operating Temperature Range:** -40°C ~ 85°C • **Load Capacitance:** 18.0pF

Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	50	Digi-Key Part No.	T & R Pricing 1,000	Abracon Part No.
8.00000	535-9831-1-ND	1.57	1.36	1.20	535-9831-2-ND	585.53	ABM7-8.000MHZ-D-2-Y-T
9.83040	535-9832-1-ND	1.57	1.36	1.20	535-9832-2-ND	585.53	ABM7-9.8304MHZ-D-2-Y-T
10.00000	535-9833-1-ND	1.57	1.36	1.20	535-9833-2-ND	585.53	ABM7-10.0000MHZ-D-2-Y-T
11.05920	535-9834-1-ND	1.57	1.36	1.20	535-9834-2-ND	585.53	ABM7-11.0592MHZ-D-2-Y-T
11.28960	535-9835-1-ND	1.57	1.36	1.20	535-9835-2-ND	585.53	ABM7-11.2896MHZ-D-2-Y-T
12.00000	535-9836-1-ND	1.57	1.36	1.20	535-9836-2-ND	585.53	ABM7-12.000MHZ-D-2-Y-T
12.28800	535-9837-1-ND	1.57	1.36	1.20	535-9837-2-ND	585.53	ABM7-12.288MHZ-D-2-Y-T
14.31818	535-9838-1-ND	1.57	1.36	1.20	535-9838-2-ND	585.53	ABM7-14.31818MHZ-D-2-Y-T
14.74560	535-9839-1-ND	1.57	1.36	1.20	535-9839-2-ND	585.53	ABM7-14.7456MHZ-D-2-Y-T
16.00000	535-9840-1-ND	1.57	1.36	1.20	535-9840-2-ND	585.53	ABM7-16.000MHZ-D-2-Y-T
18.43200	535-9841-1-ND	1.57	1.36	1.20	535-9841-2-ND	585.53	ABM7-18.432MHZ-D-2-Y-T
19.66080	535-9842-1-ND	1.57	1.36	1.20	535-9842-2-ND	585.53	ABM7-19.6608MHZ-D-2-Y-T
20.00000	535-9843-1-ND	1.57	1.36	1.20	535-9843-2-ND	585.53	ABM7-20.000MHZ-D-2-Y-T
22.11840	535-9844-1-ND	1.47	1.28	1.12	535-9844-2-ND	549.86	ABM7-22.1184MHZ-D-2-Y-T
24.00000	535-9845-1-ND	1.47	1.28	1.12	535-9845-2-ND	549.86	ABM7-24.000MHZ-D-2-Y-T
24.57600	535-9846-1-ND	1.47	1.28	1.12	535-9846-2-ND	549.86	ABM7-24.576MHZ-D-2-Y-T
25.00000	535-9847-1-ND	1.47	1.28	1.12	535-9847-2-ND	549.86	ABM7-25.000MHZ-D-2-Y-T
27.00000	535-9848-1-ND	1.47	1.28	1.12	535-9848-2-ND	549.86	ABM7-27.000MHZ-D-2-Y-T
30.00000	535-9849-1-ND	1.47	1.28	1.12	535-9849-2-ND	549.86	ABM7-30.000MHZ-D-2-Y-T
32.00000	535-9850-1-ND	1.47	1.28	1.12	535-9850-2-ND	549.86	ABM7-32.000MHZ-D-2-Y-T
33.00000	535-9851-1-ND	1.47	1.28	1.12	535-9851-2-ND	549.86	ABM7-33.000MHZ-D-2-Y-T
40.00000	535-9852-1-ND	1.47	1.28	1.12	535-9852-2-ND	549.86	ABM7-40.000MHZ-D-2-Y-F-T
48.00000	535-9853-1-ND	1.64	1.43	1.25	535-9853-2-ND	612.70	ABM7-48.000MHZ-D-2-Y-F-T
50.00000	535-9854-1-ND	1.64	1.43	1.25	535-9854-2-ND	612.70	ABM7-50.000MHZ-D-2-Y-F-T

ABM8 Series — 3.2 x 2.5 SMD Crystals

Dim. in mm.



Series Specifications:	Frequency Stability	Frequency Tolerance	Operating Temperature	Load Capacitance
ABM8-xxxMHZ-B2-T	±50ppm	±20ppm	-20°C ~ 70°C	18.0pF
ABM8-xxxMHZ-10-1-U-T	±10ppm	±10ppm	-10°C ~ 60°C	10.0pF

Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	50	Digi-Key Part No.	T & R Pricing 1,000	Abracon Part No.
ABM8-xxxMHZ-B2-T Series							
12.00000	535-9826-1-ND	3.14	2.72	2.39	535-9826-2-ND	1171.06	ABM8-12.000MHZ-B2-T
13.00000	535-9827-1-ND	3.14	2.72	2.39	535-9827-2-ND	1171.06	ABM8-13.000MHZ-B2-T
14.31818	535-9828-1-ND	3.14	2.72	2.39	535-9828-2-ND	1171.06	ABM8-14.31818MHZ-B2-T
16.00000	535-9134-1-ND	3.14	2.72	2.39	535-9134-2-ND	1171.06	ABM8-16.000MHZ-B2-T
16.38400	535-9829-1-ND	3.14	2.72	2.39	535-9829-2-ND	1171.06	ABM8-16.384MHZ-B2-T
18.43200	535-9135-1-ND	3.14	2.72	2.39	535-9135-2-ND	1171.06	ABM8-18.432MHZ-B2-T
20.00000	535-9136-1-ND	3.14	2.72	2.39	535-9136-2-ND	1171.06	ABM8-20.000MHZ-B2-T
22.11840	535-9137-1-ND	2.95	2.56	2.24	535-9137-2-ND	1099.72	ABM8-22.1184MHZ-B2-T
24.00000	535-9138-1-ND	2.95	2.56	2.24	535-9138-2-ND	1099.72	ABM8-24.000MHZ-B2-T
24.57600	535-9139-1-ND	2.95	2.56	2.24	535-9139-2-ND	1099.72	ABM8-24.576MHZ-B2-T
25.00000	535-9140-1-ND	2.95	2.56	2.24	535-9140-2-ND	1099.72	ABM8-25.000MHZ-B2-T
27.00000	535-9141-1-ND	2.95	2.56	2.24	535-9141-2-ND	1099.72	ABM8-27.000MHZ-B2-T
28.37500	535-9142-1-ND	2.95	2.56	2.24	535-9142-2-ND	1099.72	ABM8-28.375MHZ-B2-T
28.63636	535-9143-1-ND	2.95	2.56	2.24	535-9143-2-ND	1099.72	ABM8-28.63636MHZ-B2-T
29.49120	535-9144-1-ND	2.95	2.56	2.24	535-9144-2-ND	1099.72	ABM8-29.4912MHZ-B2-T
30.00000	535-9145-1-ND	2.95	2.56	2.24	535-9145-2-ND	1099.72	ABM8-30.000MHZ-B2-T
32.00000	535-9830-1-ND	2.95	2.56	2.24	535-9830-2-ND	1099.72	ABM8-32.000MHZ-B2-T
33.00000	535-9146-1-ND	2.95	2.56	2.24	535-9146-2-ND	1099.72	ABM8-33.000MHZ-B2-T
40.00000	535-9147-1-ND	2.95	2.56	2.24	535-9147-2-ND	1099.72	ABM8-40.000MHZ-B2-T
44.00000	535-9148-1-ND	2.95	2.56	2.24	535-9148-2-ND	1099.72	ABM8-44.000MHZ-B2-T
48.00000	535-9149-1-ND	2.95	2.56	2.24	535-9149-2-ND	1099.72	ABM8-48.000MHZ-B2-T
ABM8-xxxMHZ-10-1-U-T Series — Wireless Tight Stability Crystals							
13.00000	535-9673-1-ND	3.99	3.46	3.04	535-9673-2-ND	1488.92	ABM8-13.000MHZ-10-1-U-T
14.74560	535-9674-1-ND	3.99	3.46	3.04	535-9674-2-ND	1488.92	ABM8-14.7456MHZ-10-1-U-T

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