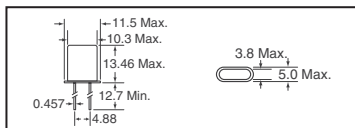


**AB Series HC49U Crystals**

**Specifications:**

- Frequency Stability: ±100ppm, -20°C - 70°C
- Frequency Tolerance: ±20ppm
- Operating Temperature: -20°C - 70°C
- Load Capacitance: 18.0pF

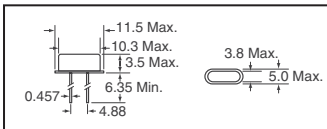


| Frequency (MHz) | Digi-Key Part No. | Price Each |      |      | Abracon Part No. |                   |
|-----------------|-------------------|------------|------|------|------------------|-------------------|
|                 |                   | 1          | 10   | 50   |                  | 100               |
| 1.843200        | 535-9009-ND       | 1.40       | 1.20 | 1.10 | 1.00             | AB-1.8432MHZ-B2   |
| 2.000000        | 535-9016-ND       | 1.40       | 1.20 | 1.10 | 1.00             | AB-2.000MHZ-B2    |
| 3.579545        | 535-9019-ND       | .42        | .36  | .33  | .30              | AB-3.579545MHZ-B2 |
| 3.686400        | 535-9020-ND       | .42        | .36  | .33  | .30              | AB-3.6864MHZ-B2   |
| 4.000000        | 535-9022-ND       | .42        | .36  | .33  | .30              | AB-4.000MHZ-B2    |
| 4.915200        | 535-9023-ND       | .42        | .36  | .33  | .30              | AB-4.9152MHZ-B2   |
| 5.000000        | 535-9025-ND       | .42        | .36  | .33  | .30              | AB-5.000MHZ-B2    |
| 6.000000        | 535-9026-ND       | .42        | .36  | .33  | .30              | AB-6.000MHZ-B2    |
| 7.372800        | 535-9027-ND       | .42        | .36  | .33  | .30              | AB-7.3728MHZ-B2   |
| 8.000000        | 535-9028-ND       | .42        | .36  | .33  | .30              | AB-8.000MHZ-B2    |
| 8.192000        | 535-9029-ND       | .42        | .36  | .33  | .30              | AB-8.192MHZ-B2    |
| 9.830400        | 535-9030-ND       | .42        | .36  | .33  | .30              | AB-9.8304MHZ-B2   |
| 10.000000       | 535-9000-ND       | .42        | .36  | .33  | .30              | AB-10.000MHZ-B2   |
| 11.059200       | 535-9001-ND       | .42        | .36  | .33  | .30              | AB-11.0592MHZ-B2  |
| 12.000000       | 535-9002-ND       | .42        | .36  | .33  | .30              | AB-12.000MHZ-B2   |
| 12.288000       | 535-9003-ND       | .42        | .36  | .33  | .30              | AB-12.288MHZ-B2   |
| 14.318180       | 535-9004-ND       | .42        | .36  | .33  | .30              | AB-14.31818MHZ-B2 |
| 14.745600       | 535-9005-ND       | .42        | .36  | .33  | .30              | AB-14.7456MHZ-B2  |
| 16.000000       | 535-9006-ND       | .42        | .36  | .33  | .30              | AB-16.000MHZ-B2   |
| 18.432000       | 535-9007-ND       | .42        | .36  | .33  | .30              | AB-18.432MHZ-B2   |
| 19.660800       | 535-9008-ND       | .42        | .36  | .33  | .30              | AB-19.6608MHZ-B2  |
| 20.000000       | 535-9010-ND       | .42        | .36  | .33  | .30              | AB-20.000MHZ-B2   |
| 22.118400       | 535-9011-ND       | .42        | .36  | .33  | .30              | AB-22.1184MHZ-B2  |
| 24.000000       | 535-9012-ND       | .42        | .36  | .33  | .30              | AB-24.000MHZ-B2   |
| 24.576000       | 535-9013-ND       | .42        | .36  | .33  | .30              | AB-24.576MHZ-B2F  |
| 25.000000       | 535-9014-ND       | .42        | .36  | .33  | .30              | AB-25.000MHZ-B2F  |
| 27.000000       | 535-9015-ND       | .42        | .36  | .33  | .30              | AB-27.000MHZ-B2F  |
| 32.000000       | 535-9017-ND       | .42        | .36  | .33  | .30              | AB-32.000MHZ-B2   |
| 32.768000       | 535-9018-ND       | .42        | .36  | .33  | .30              | AB-32.768MHZ-B2   |
| 48.000000       | 535-9021-ND       | .88        | .75  | .69  | .63              | AB-48.000MHZ-B2   |
| 50.000000       | 535-9024-ND       | .88        | .75  | .69  | .63              | AB-50.000MHZ-B2   |

**ABL Series HC49US Crystals**

**Specifications:**

- Frequency Stability: ±50ppm, -20°C - 70°C
- Frequency Tolerance: ±20ppm
- Operating Temperature: -20°C - 70°C
- Load Capacitance: 18.0pF

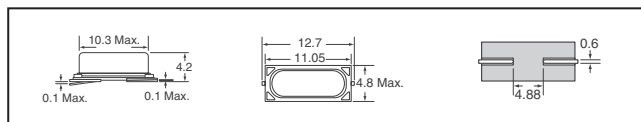


| Frequency (MHz) | Digi-Key Part No. | Price Each |      |      | Abracon Part No. |                    |
|-----------------|-------------------|------------|------|------|------------------|--------------------|
|                 |                   | 1          | 10   | 50   |                  | 100                |
| 3.579545        | 535-9053-ND       | .49        | .42  | .39  | .35              | ABL-3.579545MHZ-B2 |
| 3.686400        | 535-9054-ND       | .49        | .42  | .39  | .35              | ABL-3.6864MHZ-B2   |
| 4.000000        | 535-9057-ND       | .49        | .42  | .39  | .35              | ABL-4.000MHZ-B2    |
| 4.096000        | 535-9058-ND       | .49        | .42  | .39  | .35              | ABL-4.096MHZ-B2    |
| 4.915200        | 535-9059-ND       | .49        | .42  | .39  | .35              | ABL-4.9152MHZ-B2   |
| 6.000000        | 535-9060-ND       | .49        | .42  | .39  | .35              | ABL-6.000MHZ-B2    |
| 7.372800        | 535-9061-ND       | .49        | .42  | .39  | .35              | ABL-7.3728MHZ-B2   |
| 8.000000        | 535-9062-ND       | .49        | .42  | .39  | .35              | ABL-8.000MHZ-B2    |
| 8.192000        | 535-9063-ND       | .49        | .42  | .39  | .35              | ABL-8.192MHZ-B2    |
| 9.830400        | 535-9064-ND       | .49        | .42  | .39  | .35              | ABL-9.8304MHZ-B2   |
| 10.000000       | 535-9035-ND       | .49        | .42  | .39  | .35              | ABL-10.000MHZ-B2   |
| 11.059200       | 535-9036-ND       | .49        | .42  | .39  | .35              | ABL-11.0592MHZ-B2  |
| 12.000000       | 535-9037-ND       | .49        | .42  | .39  | .35              | ABL-12.000MHZ-B2   |
| 12.288000       | 535-9038-ND       | .49        | .42  | .39  | .35              | ABL-12.288MHZ-B2   |
| 14.318180       | 535-9039-ND       | .49        | .42  | .39  | .35              | ABL-14.31818MHZ-B2 |
| 14.745600       | 535-9040-ND       | .49        | .42  | .39  | .35              | ABL-14.7456MHZ-B2  |
| 16.000000       | 535-9041-ND       | .49        | .42  | .39  | .35              | ABL-16.000MHZ-B2   |
| 16.128000       | 535-9042-ND       | .49        | .42  | .39  | .35              | ABL-16.128MHZ-B2   |
| 16.384000       | 535-9043-ND       | .49        | .42  | .39  | .35              | ABL-16.384MHZ-B2   |
| 18.432000       | 535-9044-ND       | .49        | .42  | .39  | .35              | ABL-18.432MHZ-B2   |
| 19.660800       | 535-9045-ND       | .49        | .42  | .39  | .35              | ABL-19.6608MHZ-B2  |
| 20.000000       | 535-9046-ND       | .49        | .42  | .39  | .35              | ABL-20.000MHZ-B2   |
| 22.118400       | 535-9047-ND       | .49        | .42  | .39  | .35              | ABL-22.1184MHZ-B2  |
| 24.000000       | 535-9048-ND       | .49        | .42  | .39  | .35              | ABL-24.000MHZ-B2   |
| 24.576000       | 535-9049-ND       | .49        | .42  | .39  | .35              | ABL-24.576MHZ-B2F  |
| 25.000000       | 535-9050-ND       | .49        | .42  | .39  | .35              | ABL-25.000MHZ-B2F  |
| 27.000000       | 535-9051-ND       | .49        | .42  | .39  | .35              | ABL-27.000MHZ-B2F  |
| 32.000000       | 535-9052-ND       | .49        | .42  | .39  | .35              | ABL-32.000MHZ-B2   |
| 40.000000       | 535-9055-ND       | .88        | .75  | .69  | .63              | ABL-40.000MHZ-B2   |
| 48.000000       | 535-9056-ND       | 1.75       | 1.50 | 1.38 | 1.25             | ABL-48.000MHZ-B2   |

**ABLS Series HC49US SMD Crystals**

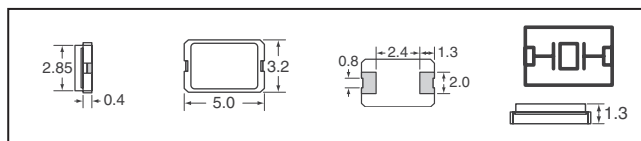
**Specifications:**

- Frequency Stability: ±50ppm, -20°C - 70°C
- Frequency Tolerance: ±20ppm
- Operating Temperature: -40°C - 85°C
- Load Capacitance: 18.0pF



| Frequency (MHz) | Digi-Key Part No. | Cut Tape Price Each |     |     | Digi-Key Part No. | Tape & Reel Pricing 1,000 | Abracon Part No. |                       |
|-----------------|-------------------|---------------------|-----|-----|-------------------|---------------------------|------------------|-----------------------|
|                 |                   | 1                   | 10  | 50  |                   |                           |                  | 100                   |
| 3.579545        | 535-9081-1-ND     | .56                 | .49 | .43 | .30               | 535-9081-2-ND             | 263.00           | ABLS-3.579545MHZ-B2-T |
| 3.686400        | 535-9082-1-ND     | .56                 | .49 | .43 | .30               | 535-9082-2-ND             | 263.00           | ABLS-3.6864MHZ-B2-T   |
| 4.000000        | 535-9085-1-ND     | .56                 | .49 | .43 | .30               | 535-9085-2-ND             | 263.00           | ABLS-4.000MHZ-B2-T    |
| 4.915200        | 535-9086-1-ND     | .56                 | .49 | .43 | .30               | 535-9086-2-ND             | 263.00           | ABLS-4.9152MHZ-B2-T   |
| 5.000000        | 535-9087-1-ND     | .56                 | .49 | .43 | .30               | 535-9087-2-ND             | 263.00           | ABLS-5.000MHZ-B2-T    |
| 7.372800        | 535-9088-1-ND     | .56                 | .49 | .43 | .30               | 535-9088-2-ND             | 263.00           | ABLS-7.3728MHZ-B2-T   |
| 8.000000        | 535-9089-1-ND     | .56                 | .49 | .43 | .30               | 535-9089-2-ND             | 263.00           | ABLS-8.000MHZ-B2-T    |
| 8.192000        | 535-9090-1-ND     | .56                 | .49 | .43 | .30               | 535-9090-2-ND             | 263.00           | ABLS-8.192MHZ-B2-T    |
| 10.000000       | 535-9065-1-ND     | .56                 | .49 | .43 | .30               | 535-9065-2-ND             | 263.00           | ABLS-10.000MHZ-B2-T   |
| 11.059200       | 535-9066-1-ND     | .56                 | .49 | .43 | .30               | 535-9066-2-ND             | 263.00           | ABLS-11.0592MHZ-B2-T  |
| 12.000000       | 535-9067-1-ND     | .56                 | .49 | .43 | .30               | 535-9067-2-ND             | 263.00           | ABLS-12.000MHZ-B2-T   |
| 12.288000       | 535-9068-1-ND     | .56                 | .49 | .43 | .30               | 535-9068-2-ND             | 263.00           | ABLS-12.288MHZ-B2-T   |
| 14.318180       | 535-9069-1-ND     | .56                 | .49 | .43 | .30               | 535-9069-2-ND             | 263.00           | ABLS-14.31818MHZ-B2-T |
| 14.745600       | 535-9070-1-ND     | .56                 | .49 | .43 | .30               | 535-9070-2-ND             | 263.00           | ABLS-14.7456MHZ-B2-T  |
| 16.000000       | 535-9071-1-ND     | .56                 | .49 | .43 | .30               | 535-9071-2-ND             | 263.00           | ABLS-16.000MHZ-B2-T   |
| 18.432000       | 535-9072-1-ND     | .56                 | .49 | .43 | .30               | 535-9072-2-ND             | 263.00           | ABLS-18.432MHZ-B2-T   |
| 19.660800       | 535-9073-1-ND     | .56                 | .49 | .43 | .30               | 535-9073-2-ND             | 263.00           | ABLS-19.6608MHZ-B2-T  |
| 20.000000       | 535-9074-1-ND     | .56                 | .49 | .43 | .30               | 535-9074-2-ND             | 263.00           | ABLS-20.000MHZ-B2-T   |
| 22.118400       | 535-9075-1-ND     | .56                 | .49 | .43 | .30               | 535-9075-2-ND             | 263.00           | ABLS-22.1184MHZ-B2-T  |
| 24.000000       | 535-9076-1-ND     | .56                 | .49 | .43 | .30               | 535-9076-2-ND             | 263.00           | ABLS-24.000MHZ-B2-T   |
| 24.576000       | 535-9077-1-ND     | .56                 | .49 | .43 | .30               | 535-9077-2-ND             | 263.00           | ABLS-24.576MHZ-B2F-T  |
| 25.000000       | 535-9078-1-ND     | .56                 | .49 | .43 | .30               | 535-9078-2-ND             | 263.00           | ABLS-25.000MHZ-B2F-T  |
| 27.000000       | 535-9079-1-ND     | .56                 | .49 | .43 | .30               | 535-9079-2-ND             | 263.00           | ABLS-27.000MHZ-B2F-T  |
| 32.000000       | 535-9080-1-ND     | .56                 | .49 | .43 | .30               | 535-9080-2-ND             | 263.00           | ABLS-32.000MHZ-B2-T   |
| 48.000000       | 535-9083-1-ND     | .56                 | .49 | .43 | .30               | 535-9083-2-ND             | 263.00           | ABLS-48.000MHZ-B2-T   |
| 49.152000       | 535-9084-1-ND     | .56                 | .49 | .43 | .30               | 535-9084-2-ND             | 263.00           | ABLS-49.152MHZ-B2-T   |

**ABM3 Series 5.0 x 3.2 SMD Crystals**



**Specifications:**

- Frequency Stability: ±100ppm, -20°C - 70°C
- Frequency Tolerance: ±20ppm
- Operating Temperature: -40°C - 85°C
- Load Capacitance: 18.0pF

| Frequency (MHz) | Digi-Key Part No. | Cut Tape Price Each |      |      | Digi-Key Part No. | T & R Pricing 1,000 | Abracon Part No. |                       |
|-----------------|-------------------|---------------------|------|------|-------------------|---------------------|------------------|-----------------------|
|                 |                   | 1                   | 10   | 50   |                   |                     |                  | 100                   |
| 12.000000       | 535-9100-1-ND     | 1.38                | 1.13 | 1.00 | .89               | 535-9100-2-ND       | 700.00           | ABM3-12.000MHZ-B2-T   |
| 13.560000       | 535-9101-1-ND     | 1.38                | 1.13 | 1.00 | .89               | 535-9101-2-ND       | 700.00           | ABM3-13.560MHZ-B2-T   |
| 14.318180       | 535-9102-1-ND     | 1.38                | 1.13 | 1.00 | .89               | 535-9102-2-ND       | 700.00           | ABM3-14.31818MHZ-B2-T |
| 16.000000       | 535-9103-1-ND     | 1.38                | 1.13 | 1.00 | .89               | 535-9103-2-ND       | 700.00           | ABM3-16.000MHZ-B2-T   |
| 18.432000       | 535-9104-1-ND     | 1.38                | 1.13 | 1.00 | .89               | 535-9104-2-ND       | 700.00           | ABM3-18.432MHZ-B2-T   |
| 20.000000       | 535-9105-1-ND     | 1.38                | 1.13 | 1.00 | .89               | 535-9105-2-ND       | 700.00           | ABM3-20.000MHZ-B2-T   |
| 24.000000       | 535-9106-1-ND     | 1.38                | 1.13 | 1.00 | .89               | 535-9106-2-ND       | 700.00           | ABM3-24.000MHZ-B2-T   |
| 24.576000       | 535-9107-1-ND     | 1.38                | 1.13 | 1.00 | .89               | 535-9107-2-ND       | 700.00           | ABM3-24.576MHZ-B2-T   |
| 25.000000       | 535-9108-1-ND     | 1.38                | 1.13 | 1.00 | .89               | 535-9108-2-ND       | 700.00           | ABM3-25.000MHZ-B2-T   |
| 27.000000       | 535-9109-1-ND     | 1.38                | 1.13 | 1.00 | .89               | 535-9109-2-ND       | 700.00           | ABM3-27.000MHZ-B2-T   |
| 28.636300       | 535-9110-1-ND     | 1.38                | 1.13 | 1.00 | .89               | 535-9110-2-ND       | 700.00           | ABM3-28.6363MHZ-B2-T  |
| 29.491200       | 535-9111-1-ND     | 1.38                | 1.13 | 1.00 | .89               | 535-9111-2-ND       | 700.00           | ABM3-29.4912MHZ-B2-T  |
| 30.000000       | 535-9112-1-ND     | 1.38                | 1.13 | 1.00 | .89               | 535-9112-2-ND       | 700.00           | ABM3-30.000MHZ-B2-T   |
| 33.000000       | 535-9113-1-ND     | 1.38                | 1.13 | 1.00 | .89               | 535-9113-2-ND       | 700.00           | ABM3-33.000MHZ-B2-T   |
| 40.000000       | 535-9114-1-ND     | 1.38                | 1.13 | 1.00 | .89               | 535-9114-2-ND       | 700.00           | ABM3-40.000MHZ-B2-T   |
| 48.000000       | 535-9115-1-ND     | 1.38                | 1.13 | 1.00 | .89               | 535-9115-2-ND       | 700.00           | ABM3-48.000MHZ-B2-T   |

(Continued)