

• E49B Series 49SMD Crystal



This part is a miniature AT cut strip crystal units with a low profile package. It is with resistance weld.

FEATURES

- Low Cost
- Industry Standard
- Wide Frequency Range
- Excellent Aging

Electrical Specifications

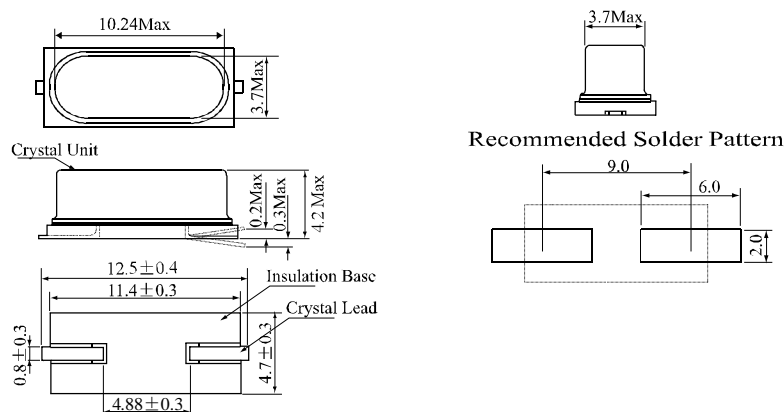
| Type | E49B | |
|------------------------------|-----------------|--|
| Frequency Range | F0 | 3.2~66.000MHz |
| Load Capacitance | CL | 10pF to Series |
| Frequency Tolerance | $\Delta F / F0$ | $\pm 10\text{ppm}, \pm 30\text{ppm}, \pm 50\text{ppm}$ (At 25°C) |
| Equivalent Series Resistance | ESR | See Table 1 |
| Temperature Stability | TC | $\pm 10\text{ppm}, \pm 30\text{ppm}, \pm 50\text{ppm}$ (Refer to 25°C) |
| Operating Temperature Range | TOPR | -20~+70°C, -30~+85°C Option |
| Storage Temperature Range | TSTG | -55~+125°C |
| Shunt Capacitance | C0 | 7pF max. |
| Insulator Resistance | IR | 500M Ω min. (At 100VDC) |
| Drive Level | DL | 100 μ W(500 μ W max.) |
| Aging | Fa | $\pm 5\text{ppm}$ max. (At 25°C, First year) |
| Packing Unit | | 200pcs/bag |

Table 1:Equivalent Series Resistance(ESR) and Mode of Vibration(Mode)

| Frequency Range(Mhz) | Max ESR(Ω) | Mode | Frequency Range(Mhz) | Max ESR(Ω) | Mode |
|----------------------|---------------------|----------------|----------------------|---------------------|--------------------------|
| 3.200 to 4.499 | 150 | Fundamental/AT | 9.000 to 9.999 | 60 | Fundamental/AT |
| 4.500 to 5.999 | 120 | Fundamental/AT | 10.000 to 12.999 | 50 | Fundamental/AT |
| 6.000 to 6.999 | 100 | Fundamental/AT | 13.000 to 40.000 | 40 | Fundamental/AT |
| 7.000 to 7.999 | 90 | Fundamental/AT | 40.000 to 66.000 | 80 | 3 rd Overtone |
| 8.000 to 8.999 | 80 | Fundamental/AT | | | |

**Please contact us for inquiries regarding other Specifications

Mechanical Dimensions(mm)



TAIWAN:

HOSONIC ELECTRONIC CO., LTD.
23-1 LANE 84, CHUN YING ST. SHULIN CHEN.
TAIPEI 23804, TAIWAN
WEB SITE:<http://www.hosonic.com>

☎: 886-2-86875200
☎: 886-2-26816456
✉: hosonic.sales@hosonic.com

CHINA:

HANGZHOU HOSONIC ELECTRONIC CO., LTD.
NO.242 LIANGBO ROAD, LIANGZHU TOWN.
YUHANG DISTRICT, HANGZHOU, ZHEJIANG, CHINA
WEB SITE:<http://www.hosonic.com>

☎: 86-571-88778189
☎: 86-571-88778857
✉: hosonic.sales@hosonic.com

Specifications are subject to change without notice