



TUNING FORK QUARTZ CRYSTAL UNITS

• ETDG Series 2.0*1.2 32.768KHz Crystal



The SMD type quarda crystal provides ultimate in size, performance, and economic trade-offs. So it is used as a clock source in communication equipment, measuring instrument, microprocessor and other time management application.

FEATURES

- Miniature Package
- Low resistance
- 32.768KHz Frequency
- Tight Tolerance

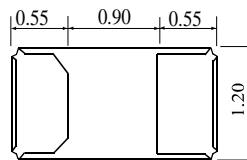
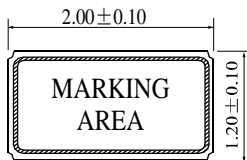
Electrical Specifications

| Item | Type | ETDG |
|------------------------------|------------------|---|
| Frequency Range | F0 | 32.768KHz |
| Load Capacitance | CL | 12.5pF(7.0pF, 9.0pF Option) |
| Frequency Tolerance | $\Delta F/F_0$ | $\pm 20\text{ppm}(\text{At } 25^\circ\text{C})$ |
| Equivalent Series Resistance | ESR | 75K Ω Max. |
| Temperature Coefficient | K | $-0.035\text{ppm}*(\Delta^\circ\text{C})^2 \pm 10\%$ |
| Turnover Temperature | T ₀ | 25 \pm 5 $^\circ\text{C}$ |
| Operating Temperature Range | T _{OPR} | -40~+85 $^\circ\text{C}$ |
| Storage Temperature Range | T _{STG} | -55~+125 $^\circ\text{C}$ |
| Shunt Capacitance | C ₀ | 2.0pF Max. |
| Insulator Resistance | IR | 500M Ω min. (At 100V _{DC}) |
| Drive Level | DL | 0.5 μW Max. |
| Aging | Fa | $\pm 3\text{ppm max. (At } 25^\circ\text{C, First year)}$ |
| Packing Unit | | 3000pcs/reel |

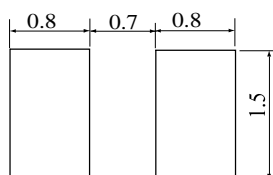
**Please contact us for inquiries regarding other Specifications

Mechanical Dimensions(mm)

ETDG Series






Recommended Solder Pattern






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