

# TUNING FORK QUARTZ CRYSTAL UNITS A Hosonic



#### 2.0\*1.2 32.768KHz Crystal • ETDG Series



The SMD type quarta 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

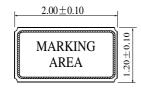
## **Electrical Specifications**

Item	Туре	ETDG
Frequency Range	F0	32.768KHz
Load Capacitance	CL	12.5pF(7.0pF, 9.0pF Option)
Frequency Tolerance	△F/ F0	±20ppm(At 25°C)
Equivalent Series Resistance	ESR	75KΩ Max.
Temperature Cofficient	K	-0.035ppm*(△°C)² ±10%
Turnover Temperature	T <sub>0</sub>	25±5℃
Operating Temperature Range	Topr	<b>-</b> 40∼+85°C
Storage Temperature Range	Tstg	<b>-</b> 55∼+125°C
Shunt Capacitance	C0	2.0pF Max.
Insulator Resistance	IR	500MΩ min. (At 100VDC)
Drive Level	DL	0.5μW Max.
Aging	Fa	±3ppm max. (At 25°C, First year)
Packing Unit		3000pcs/reel

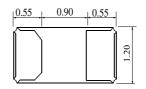
<sup>\*\*</sup>Please contact us for inquiries regarding other Specifications

### **Mechanical Dimensions(mm)**

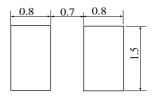
### **ETDG Series**







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



CHINA:

HANGZHOU HOSONIC ELECTRONIC CO., LTD. NO.242 LIANGBO ROAD. LIANGZHU TOWN. YUHANG DISTRICT, HANGZHOU, ZHEJIANG, CHINA

**1**: 86-571-88778189 **:** 86-571-88778857

: hosonic.sales@hosonic.com