

• ETST Series

3215 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

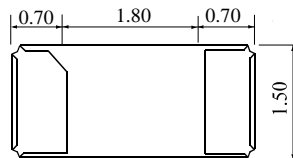
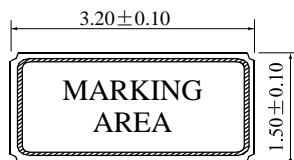
- Miniature Package
- Low resistance
- 32.768KHz Frequency
- Tight Tolerance
- Size option

Electrical Specifications

Item	Type	ETST
Frequency Range	F0	32.768KHz
Load Capacitance	CL	12.5pF(7.0pF, 9.0pF Option)
Frequency Tolerance	$\Delta F/F_0$	$\pm 20\text{ppm(At } 25^\circ\text{C)}$
Equivalent Series Resistance	ESR	70K Ω Max.
Temperature Coefficient	K	$-0.034 \pm 0.006\text{ppm} * (\Delta^\circ\text{C})^2$
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	1 μW Max.
Aging	F _a	$\pm 5\text{ppm max. (At } 25^\circ\text{C, First year)}$
Packing Unit		3000pcs/reel

**Please contact us for inquiries regarding other Specifications

Mechanical Dimensions(mm)



Recommended Solder Pattern

