

### FEATURES

- \* Compact and low profile
- \* Seam-welded package
- \* Tape & Reel (1,000 pcs.)

The IS 2.5X2.0 is our smallest sub-miniature SMD crystal with 2.5X2.0 mm footprint. This package is ideal for today's compact wireless applications where board space is critical.



### OPERATING CONDITIONS/ELECTRICAL CHARACTERISTICS

PARAMETERS	CONDITIONS	MINIMUM	TYPICAL	MAXIMUM	UNITS
FREQUENCY RANGE		16.000		60.000	MHz
CALIBRATION TOLERANCE	@ +25 °C			±50*	PPM
FREQUENCY STABILITY, ref@25 °C	-10 ~+60°C			±50*	PPM
SHUNT CAPACITANCE				5	pF
LOAD CAPACITANCE	CL(Customer Specified)	12	16 standard	Series	pF
DRIVE LEVEL	DL			100	µW
OPERATING TEMPERATURE	T <sub>OPR</sub> **	-20		+70	°C
STORAGE TEMPERATURE	T <sub>STG</sub>	-40		+85	°C
AGING CHARACTERISTICS (Per YEAR)	@ +25°C±3°C per year			±5	PPM

\* Tighter specifications are available. \*\*Extended temperature range available.

### EQUIVALENT SERIES RESISTANCE / MODE OF OSCILLATION

FREQUENCY RANGE (MHz)	MODE	MAX ESRΩ	FREQUENCY RANGE (MHz)	MODE	MAX ESRΩ
16.000 ~ 29.999	Fundamental	100	30.000 ~ 60.000	Fundamental	60

### PACKAGE DIMENSIONS (mm)

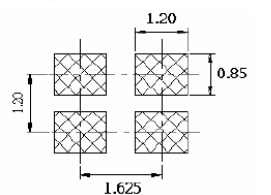
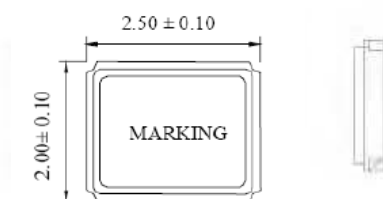


Figure 2) Land Pattern

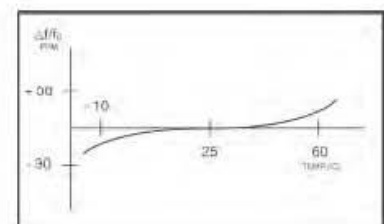


Figure 3) Frequency vs Temperature Curve

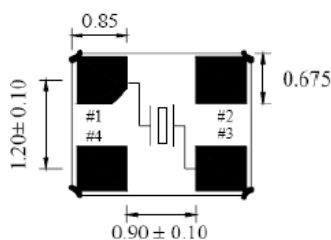


Figure 1) Top, Side, Bottom and End views