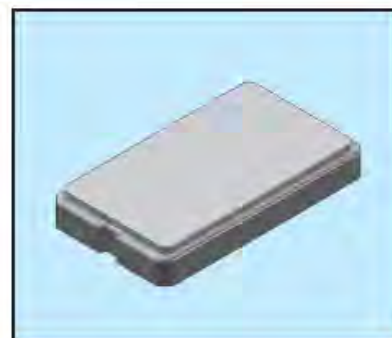




FEATURES

- * Compact and low profile
- * Glass sealed ceramic package
- * Tape & Reel (1000 pcs)

The ISX-5X3.2G is sub miniature SMD crystal with a 3.2 x 5 mm footprint. This package is ideal for todays compact wireless applications where board space is critical.



OPERATING CONDITIONS/ELECTRICAL CHARACTERISTICS

PARAMETERS	CONDITIONS	MINIMUM	TYPICAL	MAXIMUM	UNITS
FREQUENCY RANGE		12.000		100.000	MHz
CALIBRATION TOLERANCE	@ +25 °C			± 50	PPM
FREQUENCY STABILITY _{ref@25°C}	-10 ~ +60°C			± 50	PPM
SHUNT CAPACITANCE				5	pF
LOAD CAPACITANCE	C _L (Customer Specified)	12	16 standard	Series	pF
DRIVE LEVEL	DL			100	µW
OPERATING TEMPERATURE	T _{OPR} **	-10		+60	°C
STORAGE TEMPERATURE	T _{STG}	-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 ESR(Ω)	FREQUENCY RANGE (MHz)	MODE	MAX ESR(Ω)
12.000 ~ 13.999	Fundamental	100	35.000 ~ 39.999	3rd O/T	100
14.000 ~ 40.000	Fundamental	40	40.000 ~ 100.000	3rd O/T	60

PACKAGE DIMENSIONS (mm)

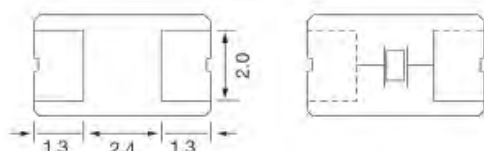
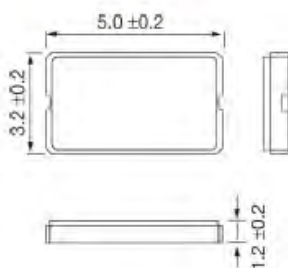


Figure 1) Top, Side Bottom and End views

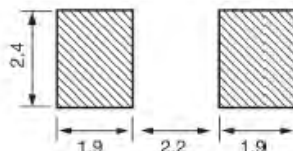


Figure 2) Land Pattern

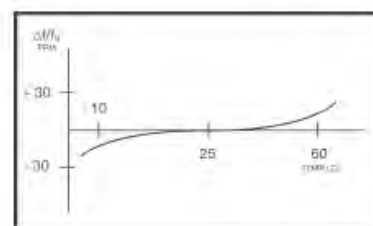


Figure 3) Frequency vs Temperature Curve

FEATURES

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

The ISX-5X3.2S is our sub-miniature SMD crystal with 3.2 x 5 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		10.000		100.00	MHz
CALIBRATION TOLERANCE	@ +25°C			± 50*	PPM
FREQUENCY STABILITY, ref@25°C	-10 ~+70°C			± 50*	PPM
SHUNT CAPACITANCE				5	pF
LOAD CAPACITANCE	CL(Customer Specified)	10	16.0 standard	Series	pF
DRIVE LEVEL	DL			100	µW
OPERATING TEMPERATURE	T _{OPR}	-20		+70	°C
STORAGE TEMPERATURE	T _{STG}	-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 ESR(Ω)	FREQUENCY RANGE (MHz)	MODE	MAX ESR(Ω)
10.000 ~ 11.999	Fundamental	100	14.000 ~ 54.000	Fundamental	40
12.000 ~ 13.999	Fundamental	60	40.000 ~ 100.000	3rd O/T	60

PACKAGE DIMENSIONS (mm)

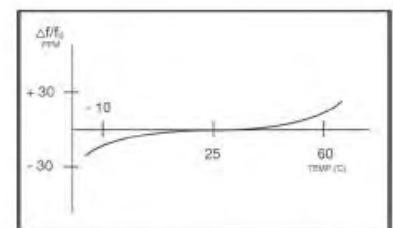
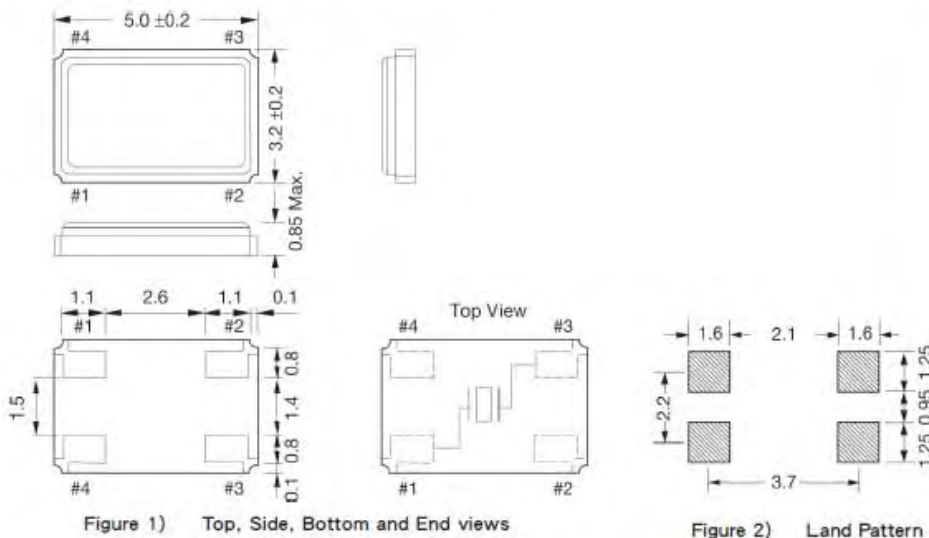


Figure 3) Frequency vs Temperature Curve