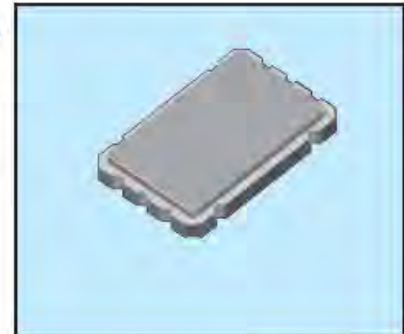


### FEATURES

- \* Cost effective
- \* Space saving design
- \* Low profile
- \* Tape & Reel (1,000 pcs)

The ISX-7X5G Series is a very cost effective, low profile SMD quartz crystal. The glass sealed ceramic package is available in three optional land pad configurations. It is ideal for PCMCIA, ethernet and fax modem card applications.



### OPERATING CONDITIONS/ELECTRICAL CHARACTERISTICS

PARAMETERS	CONDITIONS	MINIMUM	TYPICAL	MAXIMUM	UNITS
FREQUENCY RANGE	$f_0$	8.0		100.000	MHz
CALIBRATION TOLERANCE	@ +25°C	-30		+30	PPM
FREQUENCY STABILITY, $f_{ref}$ @25°C	-10 ~ +70°C	-50		+50	PPM
SHUNT CAPACITANCE	$C_0$			5.0	pF
LOAD CAPACITANCE (C)	(Customer Specified)	10.0	20.0 standard	Series	pF
DRIVE LEVEL ( $D_L$ )	8.0~100.0MHz			100	uW
OPERATING TEMPERATURE	$T_{OPR}$	-10		+70	°C
STORAGE TEMPERATURE	$T_{STG}$	-40		+85	°C
AGING (FIRST YEAR)	@ +25°C	-5.0		+5.0	PPM

### EQUIVALENT SERIES RESISTANCE / MODE OF OSCILLATION

FREQUENCY RANGE (MHz)	MODE	MAX ESR(Ω)	FREQUENCY RANGE (MHz)	MODE	MAX ESR(Ω)
8.000 ~ 11.999	Fundamental	100	14.000 ~ 40.000	Fundamental	40
12.000 ~ 13.999	Fundamental	60	40.000 ~ 100.000	3rd O/T	60

### PACKAGE DIMENSIONS (mm)

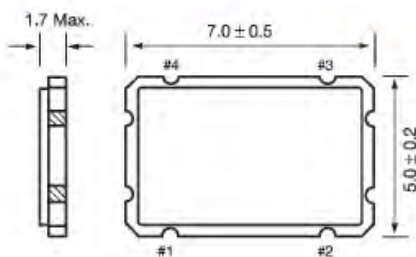


Figure 1) Side and Top view

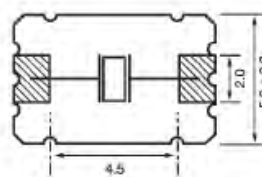


Figure 2) 2 Pad Configuration Bottom view

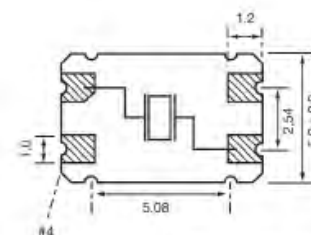


Figure 3) 4 Pad Configuration Bottom view

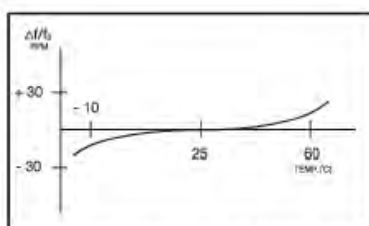


Figure 4) Frequency vs Temperature Curve



Figure 5) Recommended Solder Pad Layout Top view

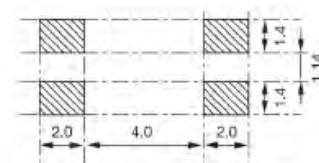
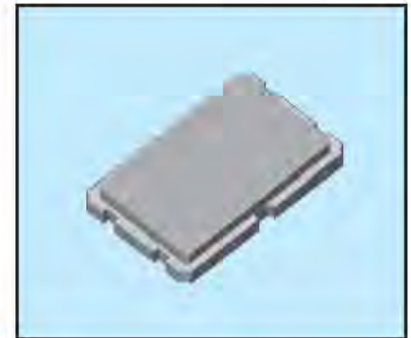


Figure 6) Recommended Solder Pad Layout Top view

### FEATURES

- \* Seam welded metal lid / ceramic package
- \* 1.3mm max. low profile
- \* Tight stability / high reliability
- \* Wide frequency range
- \* Tape & Reel (1,000 pcs)

The ISX-7X5S is a 1.3mm max. low profile SMD quartz crystal. This seam welded metal lid/ceramic package crystal is ideal for PCMCIA ethernet and fax modem card applications.



### OPERATING CONDITIONS/ELECTRICAL CHARACTERISTICS

PARAMETERS	CONDITIONS	MINIMUM	TYPICAL	MAXIMUM	UNITS
FREQUENCY RANGE		8.0		125.0	MHz
CALIBRATION TOLERANCE	@ +25 °C	-30		+30	PPM
FREQUENCY STABILITY <sub>ref@25°C</sub>	-10 ~+70°C	-50		+50	PPM
SHUNT CAPACITANCE	C <sub>0</sub>			5.0	pF
LOAD CAPACITANCE (C <sub>L</sub> )	(Customer Specified)	10.0	20.0 standard	Series	pF
DRIVE LEVEL (DL)	8.0~100.0MHz			100	µW
OPERATING TEMPERATURE	T <sub>OPR</sub>	-10		+70	°C
STORAGE TEMPERATURE	T <sub>STG</sub>	-40		+85	°C
AGING (FIRST YEAR)	@ +25 °C	-5.0		+5.0	PPM

### EQUIVALENT SERIES RESISTANCE / MODE OF OSCILLATION

FREQUENCY RANGE (MHz)	MODE	MAX ESR $\Omega$	FREQUENCY RANGE (MHz)	MODE	MAX ESR $\Omega$
8.000 ~ 15.999	Fundamental	60	30.000 ~ 45.000	3rd O/T	80
16.000 ~ 40.000	Fundamental	40	45.000 ~ 125.000	3rd O/T	70

### PACKAGE DIMENSIONS (mm)

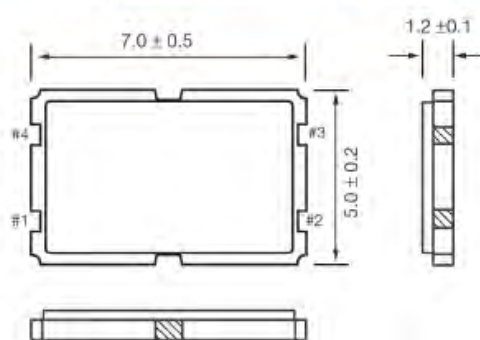


Figure 1) Top and Side views

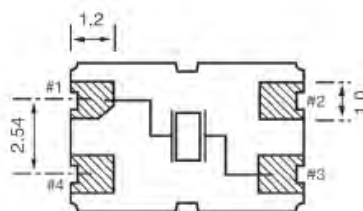


Figure 2) Pad Configuration Bottom view

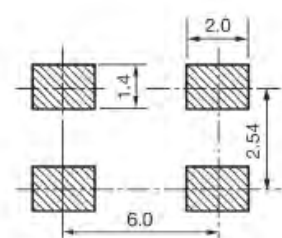


Figure 3) Recommended Solder Pad Layout, Top view

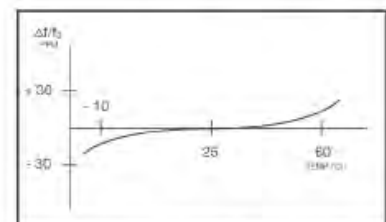


Figure 4) Frequency vs Temperature Curve