

1. Part Number: F947X-(see part number guide below)

2. Description: 7 x 5 x 1.1 mm surface mount quartz crystal resonator in a ceramic and metal package

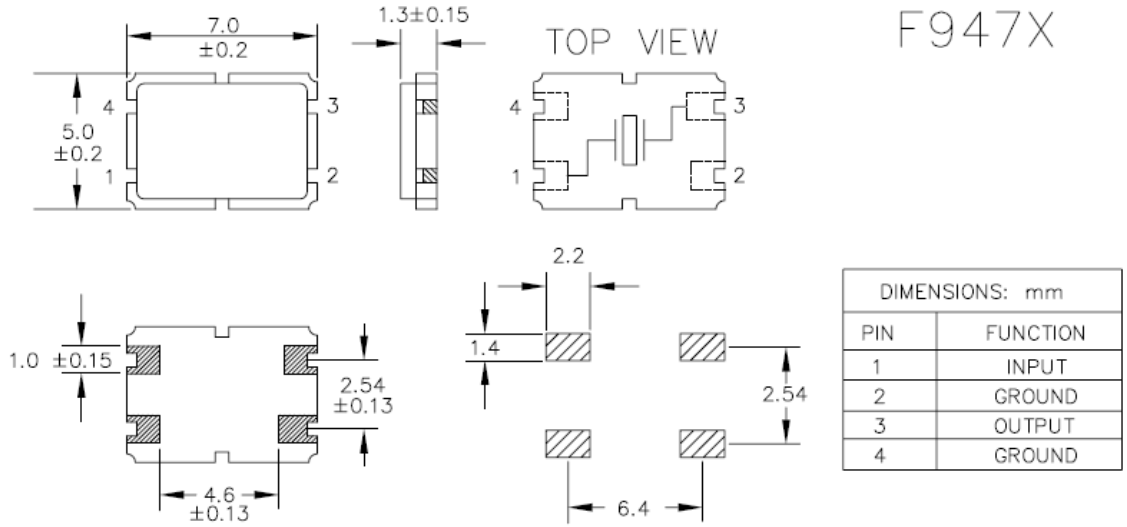
3. Electrical Specifications:

Frequency Range		8 MHz to 200 MHz			
Crystal Cut		AT			
Mode of Operation		Fund, 3 rd , 5 th			
Frequency Tolerance at 25°C		±5 to ± 50 ppm			
Frequency Stability Over Temperature		±5 to 100ppm, -40 to +85°C			
Shunt Capacitance (Co)		7pf max			
Load Capacitance (Cl)		8 to 60 pf or Series			
Equivalent Series Resistance (ESR)	Premium	Frequency (MHz)	Mode	ESR (Ω)	
		10 to 30	Fundamental	40	
		30 to 120	3rd	50	
			120 to 200	5th	80
	Standard*	8 to 16	Fundamental	60	
		16 to 36	Fundamental	40	
		27 to 80	3rd	80	
Aging @ 25°C		±5 ppm max per year			
Insulation Resistance		500 Mohm min @ 100 Vdc			
Drive Level		100 uW typ			
Storage Temperature		-40 to +85°C			
Reflow Conditions		250°C for 10 sec max, 2 reflows max			

4. Part Number Guide:

Base Model	Cut	Mode of Operation	Circuit Condition	Calibration at 25°C	Temperature Stability Options (°C)		Frequency
F947X	- AT	1: Fund 3: 3 rd OT 5: 5 th OT	S: Series 8: 8 pf 10: 10pf 12: 12pf 16: 16pf x: specify	- 5: ± 5ppm 10: ±10 ppm 20 :±20 ppm 30: ±30 ppm 50: ±50ppm x: custom	X: ±10 ppm 0°C to +70 L: ±10 ppm -10°C to +60 AD: ±20 ppm 0°C to +70 H: ±20 ppm -10°C to +60 V: ±30 ppm 0 to +70 G: ±30 ppm -10°C to +60	F: ±30 ppm -20°C to +70 AA: ±30 ppm -40°C to +85 E: ±50 ppm 0 to 70 AD: ±50 ppm -20°C to +70 AB: ±50 ppm -40°C to +85 S: SPECIFY	- 8 to 200 MHz
F947X	- AT	1	16	- 30	E		- 24 MHz

5. Mechanical Package:



Drawing subject to change with out notice