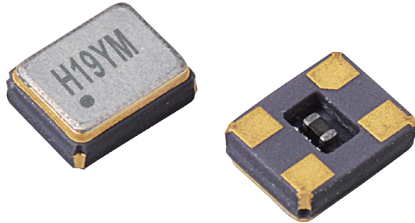


CRYSTAL RESONATOR

2-in-1 Thermistor

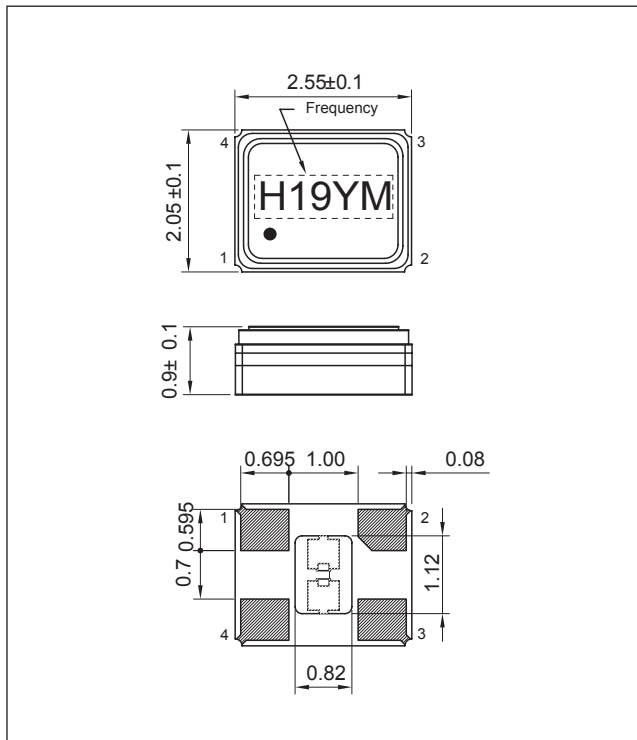
HSX221SR Series



Features:

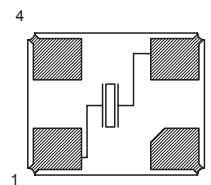
- 2-in-1 SMD product with high precision temperature compensation and a built-in thermistor.
- Dual-chamber bonding structure to achieve higher product reliability.
- Reduce circuit design space.
- Optimal solution for RF applications to replace VC-TCXO or TCXO designs.
- Available in GPS grade.

Dimension (mm):



Internal Connections

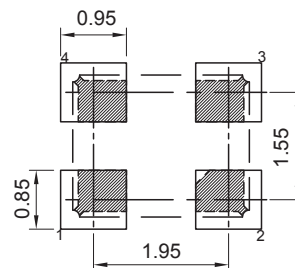
<Top View>



Pin Connections	
#1	Crystal
#2	Thermistor/Lid/GND
#3	Crystal
#4	Thermistor

Recommended Land Pattern (mm)

<Top View>



Standard Specification:

ITEM	TYPE	HSX221SR	
Nominal Frequency		19.2~54MHz	
Mode		Fundamental	
Frequency Tolerance		±10ppm , ±15ppm (at. to 25°C)	
Frequency Stability (Temp.)		±12ppm / -30~+85°C	±10ppm / -25~+85°C
Operating Temp. Range		-30~+105°C	-25~+85°C
Load Capacitance		7pF, 8pF, 12pF, 16pF or Specify	
Drive Level		10µW(100µW Max.)	
Equivalent Series Resistance		80Ω Max.	30Ω Max.
Storage Temp. Range		-40~+105°C	-40~+105°C
Thermistor Resistance(25°C)		100KΩ	
Thermistor B-constant(25~50°C)		4250K	

*Packing Unit: 3,000pcs/Reel.