



RFM Integrated Device, Inc.

General Specification

XTAL Crystal Units

1612 Series

SMD 1.6 x 1.2 mm

Frequency Range

24.000 - 96.000 MHz

Tol/Spec

+/-3 to +/-50ppm @25C+/-3C

Features:

- Surface Mount Hermetic Package
- Excellent Reliability Performance
- Good Frequency Perturbation and Stability over temperature
- Ultra Miniature Package
- Moisture Sensitivity Level (MSL) : Level-1
- Compliance with BT/ WI/ NB-IOT/ 5G/ WI-FI6 application



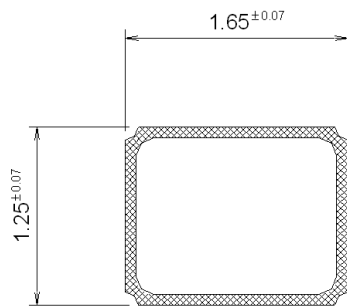
Specifications

Item	Symbol	Specification	Unit	Remarks
Frequency Range	f_nom	24.000 to 96.000	MHz	
Overtone Order	OT	Fundamental	—	
Load Capacitance	CL	4~∞	pF	
Frequency Tolerance	f_tol	±3~-+50	×10 ⁻⁶	25°C±3°C
Motional Series Resistance	R1	Table 1	ohm	
Drive Level	DL	10~500	μW	
Operating Temp. Range	T_use	-20 ~75//-30~85	°C	
		-40~85//-40~105	°C	
		-40~125//-40~125	°C	
Storage Temp. Range	T_stg	-40 to +125	°C	
Frequency Temp. Characteristics	f_tem	±10//+/-15//+20//+/-30 //+/-50//+/-100	×10 ⁻⁶	Freq. deviation from the value at 25°C

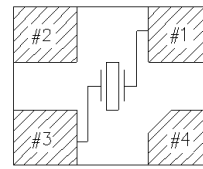
Resistance

Frequency Range	Motional Series Resistance
24.000<=30.000 MHz	150 Ω max.
30.000<=40.000 MHz	100 Ω max.
40.000<=50.000 MHz	80 Ω max.
50.000<=60.000 MHz	70 Ω max
60.000<=80.000 MHz	60 Ω max
80.000<=96.000 MHz	50 Ω max

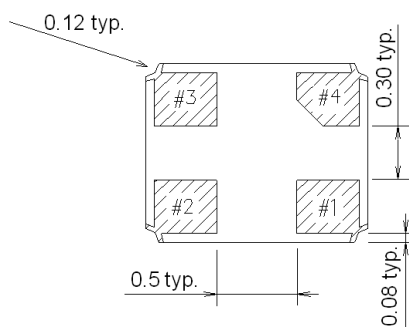
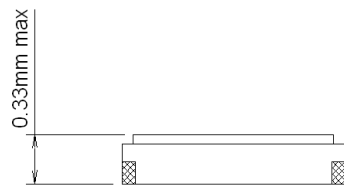
Mechanical Dimensions (mm):



Internal Connections
(Top View)



[NOTE] #4=NC, #2 is connected with a metal cover



	Pin Connection
#1 pin	IN/OUT
#2 pin	GND
#3 pin	IN/OUT
#4 pin	NC

Recommended Land Pattern: (unit: mm)

Reference FootPrint

