



● Applications

OA • AV machine • Bluetooth • Wireless LAN

● Features

Ultra-thin • Dimensions(3.2×2.5×0.6)  
 Ceramic SMD Package • Leadless Type  
 Tight Tolerance and Stability • Vacuum Seam Sealed  
 Reflow Soldering • Emboss Taping  
 RoHS Compliant

## ▼ Specifications

Type	SX-3225	
Nominal frequency range	12.000~56.000MHz	
Crystal cut	Fundamental [AT-cut]	
Storage temperature range	-40~+90°C	
Operating temperature range	-10~+60°C	-30~+85°C
Frequency temperature characteristics (Ref. to +25°C)	±10×10 <sup>-6</sup>	±15×10 <sup>-6</sup>
Frequency tolerance(at +25°C)	±10×10 <sup>-6</sup>	
Equivalent series resistance	150Ω:12.000~12.999MHz 120Ω:13.000~13.999MHz 100Ω:14.000~15.999MHz	80Ω:16.000~19.999MHz 60Ω:20.000~29.999MHz 50Ω:30.000~56.000MHz
Load capacitance	series,10pF,12pF,16pF	
Shunt capacitance	5pF max.	
Level of drive	10μW(100μW max.)	

Please consult with us for more details. sales@siward.com.tw  
 Package quantity : 1,000pcs max./reel.

## ▼ Outline Dimensions [unit:mm]

TOP VIEW

#1 #2  
#4 #3

Maximum marking length		Marking
line1	line2	
4	4	Laser
ex.)		

#1,#3: Crystal terminal / #2,#4: Connected to cover.  
 (Please connect it with GND.)

Example of a Terminal Land Pattern