

## SMD Crystal (S3225A) 3.2\*2.5\*0.8mm

### FEATURES:

- Ultrathin thickness 0.8mm.
- It is a completely sealed type with a metal case sealed on a ceramic board.
- Automatic mounting is possible.
- Low impedance performance.
- Reflow is possible.
- RoHS compliant and lead free.

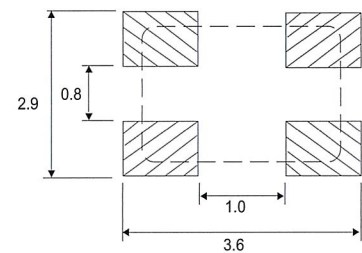
### SPECIFICATIONS

Type	SMD CRYSTAL UNITS 3.2*2.5*0.8mm	
Frequency range	Fundamental	10.0~60.0 MHz
	3rd	72.0~156.25MHz
Vibration mode	AT cut, Fundamental,3rd	
Frequency tolerance (at 25°C)	-/+10ppm, -/+30ppm, or specify	
Equivalent series resistance	See table No.1	
Frequency stability over operating temperature range	-/+10ppm, -/+30ppm, or specify	
Operating temperature range	-10~ +60°C, or specify	
Drive level	200uW max	
Shunt capacitance	3.5pF max.	
Load capacitance	8pF, 12pF, or specify	
Aging	-/+2ppm/year, -/+5ppm/year	
Min.Packing	3, 000pcs/Reel	

### Equivalent series resistance(ESR) Table No.1

Frequency	Mode	ESR
10.0 MHz	Fundamental	150 ohms max.
11.0~11.9 MHz	Fundamental	120 ohms max.
12.0~12.9 MHz	Fundamental	100 ohms max.
13.0~15.9 MHz	Fundamental	80 ohms max.
16.0~20.9 MHz	Fundamental	70 ohms max.
21.0~29.9 MHz	Fundamental	60 ohms max.
30.0~60.0 MHz	Fundamental	50 ohms max.
72.0~156.25MHz	3rd	100 ohms max.

### Recommended Soldering Pattern



### Dimension(Unit:mm)

