

SMD Crystal UNITS 3.2*2.5*0.7mm (S3225A)

RoHS / Pb Free

Features

- ▶ Ultra-thin thickness 0.7mm.
- ▶ 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.

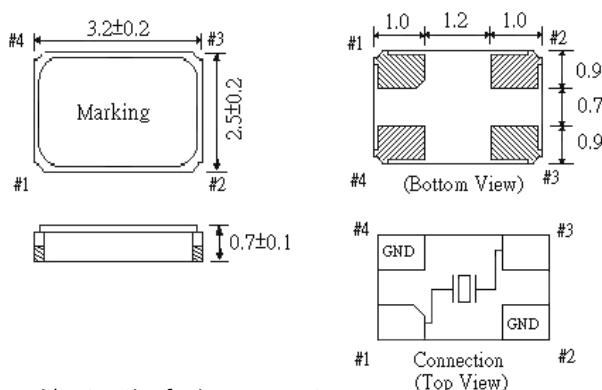
Specifications

Type		SMD Crystal UNITS 3.2*2.5*0.7mm
Freq. range	Fundamental	8.0 ~ 80.0MHz
	3rd	60.0 ~ 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		3.0pF 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
8.0~9.9MHz	Fundamental	500 ohms Max.
10.0~10.9MHz	Fundamental	250 ohms Max.
11.0~11.9MHz	Fundamental	150 ohms Max.
12.0~12.9MHz	Fundamental	100 ohms Max.
13.0~15.9MHz	Fundamental	80 ohms Max.
16.0~20.9MHz	Fundamental	70 ohms Max.
21.0~29.9MHz	Fundamental	60 ohms Max.
30.0~80.0MHz	Fundamental	50 ohms Max.
60.0~156.25MHz	3rd	100 ohms Max.

Dimensions (Unit:mm)



*Specifications described are subject to change without notice for improvement.