

CRYSTAL SBX - 19

APPLICATIONS

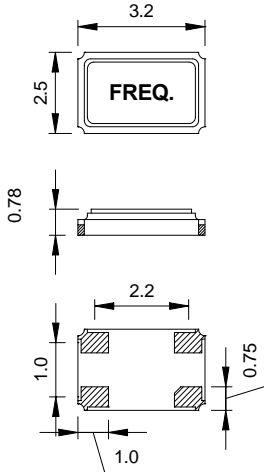
CERAMIC SMD

- ▶ PDA
- ▶ Notebook PC
- ▶ Digital camera
- ▶ Portable systems

3.2mm X 2.5mm X 0.78mm(H)

PICTURE
AREA

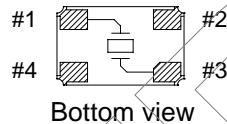
OUTLINE DIMENSIONS



ELECTRICAL SPECIFICATIONS

Frequency range	12.000MHz ~ 54.000MHz		
Frequency tolerance	±20ppm	±30ppm	± 50ppm
Frequency stability	±30ppm	±50ppm	±100ppm
Operating temperature range	-0 °C ~ 70 °C	-20 °C ~ 70 °C	-40 °C ~ 85 °C
Operable temperature range	-40 °C ~ 85 °C		
Storage temperature range	-55 °C ~ 125 °C		
Shunt capacitance (C0)	7pF max.		
Load capacitance (CL)	7pF to 33pF, Series		
Drive level	100µW max. (Typical)		
Aging (at 25 °C)	±3ppm / year max.		
Insulation resistance	500MΩ min.		
Frequency range	ESR (Ω) max.	Oscillation mode	
12.000MHz ~ 18.000MHz	50	Fundamental	
18.000MHz ~ 19.9999MHz	45	Fundamental	
20.000MHz ~ 24.9999MHz	40	Fundamental	
25.000MHz ~ 54.000MHz	35	Fundamental	

INTERNAL CONNECTION



Note :
Pin#2 and #4 are connected through cover.
In case connected to GND, frequency might be drifted.

ORDERING GUIDE

SBX - 19 - Frequency :
 Load capacitance : pF
 Crystal impedance : Ω
 Stability : ± ppm (at 25 °C)
 Tolerance : ± ppm (°C ~ °C)
 Drive level : µW
 Shunt capacitance : pF
 Packing type : Bulk / Reel taping

Specifications subjects to change without notice & If you need other specifications, Contact our factory.

APPLICATIONS CIRCUIT

