

Pb Free

RoHS Conforming

Features

- Reference frequency for telecommunication systems
- Reflow compatible
- Using Ceramic Package resulting in high reliability
- Small and low profile

Standard Frequencies (kHz)

12000.000	19200.000
12800.000	26000.000
13000.000	32000.000
14400.000	40000.000
16000.000	48000.000

* Please inquire about frequencies other than the above.

Applications

- Mobile communications, Bluetooth, Wireless LAN

Specifications

Items	Symbol	Specification		Units	Remarks
Frequency Range	F ₀	9843.75~49999	50~120(MHz)	kHz	
Overtone Order	—	Fundamental	3rd Overtone	—	
Frequency Tolerance	ΔF/F	±10		ppm	@ 25°C
Frequency Temperature Characteristics	ΔF/T	±15		ppm	ref@ 25°C Over Operating Temp Range
Motional Series Resistance	C ₁	Table 1		ohm	
Level of Drive	—	Table 2		μW	
Load Capacitance	C _L	10		pF	
Operating Temp. Range	T _{OPR}	-30~+85		°C	
Storage Temp. Range	T _{STG}	-40~+85		°C	

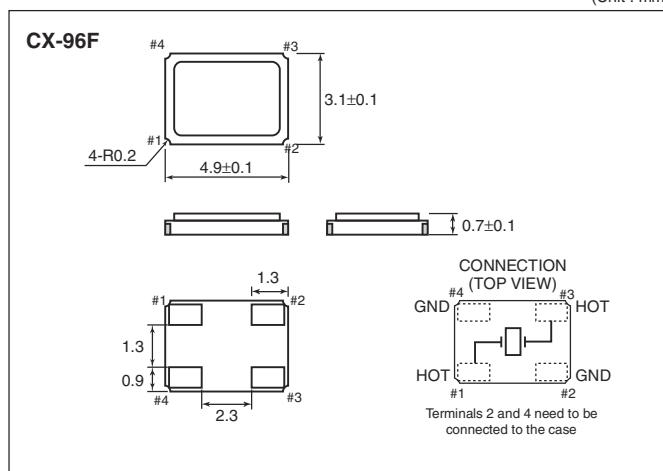
* Please inquire about specifications other than the above.

Table1 Motional Series Resistances

Frequency Range	Motional Series Resistance	Units
9843.75~9999kHz	150	ohm
10000~11999kHz	80	
12000~25999kHz	50	
26000~49999kHz	40	
50~120(MHz)	80	

Table2 Level of Drive

Frequency Range	Level of Drive	Units
10000~49999kHz	10(100 max.)	μW
50~120(MHz)(3rdO.T)	10(100 max.)	

Dimensions**Recommended Land Pattern**