



## FEATURES

- ✓ SMD Construction
- ✓ Wide Frequency Range
- ✓ 8x8mm Package Size
- ✓ High Stability Over Temp
- ✓ Vibration Resistant

Crystals

#blileytakesyoufurther

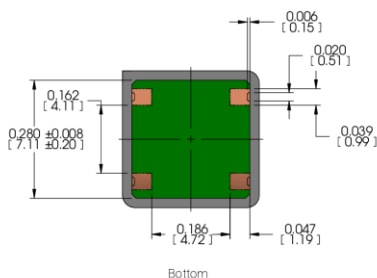
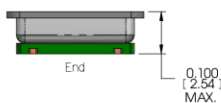
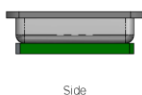
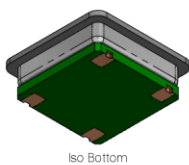
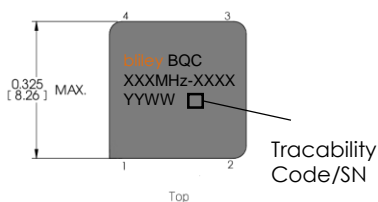
## Part Number Configuration

**BQCSW - M - B**

Center Frequency	Mode	Frequency Stability	Operating Temperature	Setting Tolerance	Load Capacitance
10MHz to 150MHz	F: Fund 3: 3rd 5: 5th	A: ±25ppm B: ±50ppm C: ±100ppm	A: 0°C to +70°C B: -20°C to +70°C C: -40°C to +85°C	B: ±10ppm C: ±15ppm D: ±20ppm	G: 20pF L: 32pF Z: Series

\*Not all combinations of options may be possible  
\*\*Other options may be available

## Physical Specifications



PIN	FUNCTION
1	Crystal
2	N.C.
3	Crystal
4	N.C.

Tolerances (mm) .X = ± 0.5, .XX = ±0.2 unless otherwise specified



- Notes
- 1) Connection Pads: Gold(10-40 μ in.) over Nickel (100-250 μ in.)
  - 2) Weight = 1.5gms typical

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## Performance Specifications

Parameter	Conditions	Fund.	3 <sup>rd</sup>	5 <sup>th</sup>	Unit
Frequency Range		10.0 – 30.0	20.0 – 80.0	75.0 – 150.0	MHz
Frequency Tolerance	@ + 25°C	±20 Max (See Options)			ppm
Frequency Stability		±100 Max (See Options)			ppm
Aging	Max 1 <sup>st</sup> Year		±2.0		ppm
Equivalent Series Resistance	Max	30	30	60	Ω
Insulative Resistance	Dependent upon Frequency		500		MΩ
Drive Level	(typical)		100		μW
C0 (Shunt Capacitance)	Max		5		pF
CL (Load Capacitance)			(See Options)		pF
DLD	10μW to 300μW		±1 Max		ppm
RLD	10μW to 300μW		15% Max		Ω
Operating Temp Range			(See Options)		°C
Storage Temp Range			-55 to +125		°C
Sealing Method			Resistance Weld		
G-Sensitivity	Max		3.0		ppb/g
Vibration	MIL-STD-202, Method 214, Test Condition E				
Shock	MIL-STD-202, Method 213, Test Condition G				