BQCTU-XXXMX-XXXXXB – UM1 Crystals

bliley technologies

Crystals

FEATURES
✓ Wide Frequency Range
✓ UM1 Package
✓ High Stability Over Temp

#blileytakesyoufurther

Part Number Configuration

BQCTU – ____ M ____ – ____ ____ ____ B

Center Frequency
10 MHz to
100 MHz

Mode
F: Fund
3: 3rd OT

Frequency Stability
B: ±50ppm
D: ±20ppm
G: ±10ppm

Operating Temperature
B: -20°C to +70°C
C: -40°C to +85°C
H: -10°C to +60°C

Setting Tolerance
B: ±10ppm
D: ±20ppm
F: ±50ppm
S: Specify

Load Capacitance
A: 8pF
F: 18pF
G: 20pF
S: Specify

Pin Out
A: 2-Pin
G: Gull Wing

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

Physical Specifications

0.311 Max [7.90 Max]
0.126 Max [3.20 Max]
Top

Iso Bottom

0.272 [6.91]
0.315 Max [8.0 Max]
BQC XXXM YYWW
0.519 Typ [13.2 Typ]
0.148 [3.76]
Side

0.087 [2.21]
Ø 0.014 [0.36]
End

Bottom

0.102 [2.60]
0.315 Max [8.0 Max]
0.087 [2.20]
0.094 [2.40]
0.075 [1.90]
0.126 [3.20]
0.051 [1.30]

0.311 Max [7.90 Max]
0.126 Max [3.20 Max]
0.079 [2.00]

PIN	FUNCTION
1	Crystal
2	Crystal

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

RoHS COMPLIANT
Certified System Quality ISO 9001 SAI GLOBAL
REACH COMPLIANCE
AS 9100D CERTIFIED ISO 9001

Notes
1) Weight = 2.5gms typical

REV 2.0 2019

Performance Specifications

Parameter	Conditions	Min	Max	Unit
Frequency Range	Fundamental	10	40	MHz
	3rd Overtone	40	100	MHz
Frequency Tolerance	@ + 25°C		±100 Max (see options)	ppm
Frequency Stability			±100 Max (see options)	ppm
Aging	1st Year		±5.0	ppm
Equivalent Series Resistance (max)	Dependent on Frequency and Mode	25	50	Ω
Insulative Resistance	Min @ 100Vdc ±15Vdc	500		MΩ
Drive Level	Typical	100		µW
C0 (Shunt Capacitance)	Max (typical)	1.0	7.0	pF
CL (Load Capacitance)	Per Option (typical)	6-20 (see options)		pF
DLD	50nW to 100µW	±10 Max		ppm
RLD	50nW to 100µW	20% Max		Ω
Operating Temp Range	See Options	-20 to +70 / -40 to +85 / -10 to +60		°C
Storage Temp Range		-45 to +125		°C
Sealing Method		Resistance Weld		
Moisture Sensitivity Level	1			