



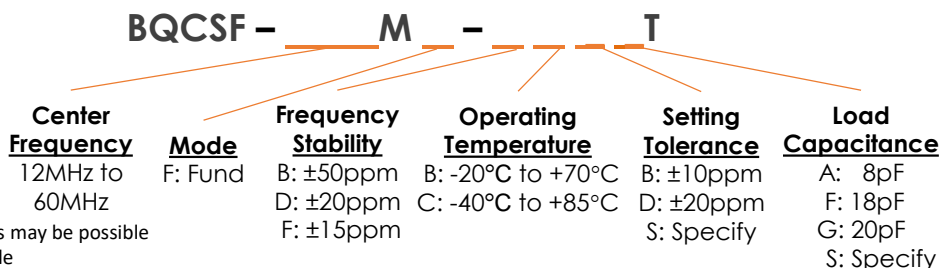
FEATURES

- ✓ SMD Construction
- ✓ Standard 2.5x2.0mm Package Size
- ✓ High Stability Over Temp

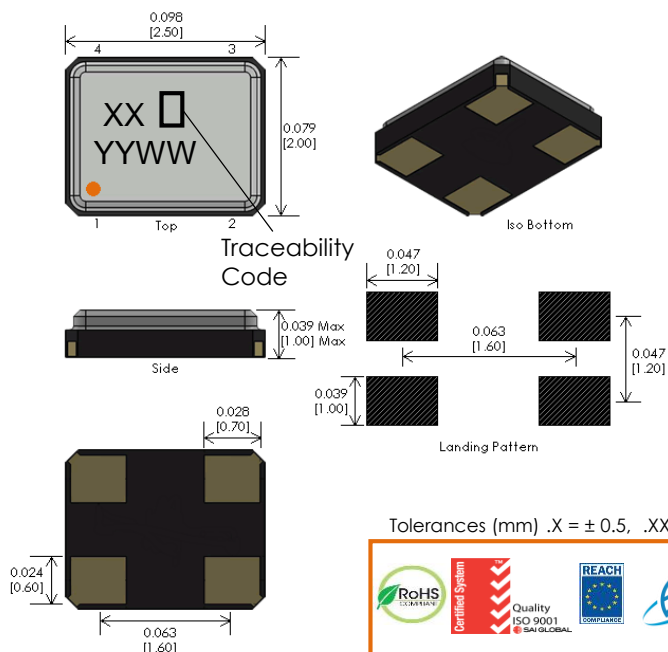
Crystals

#blileytakesyoufurther

Part Number Configuration



Physical Specifications



PIN	FUNCTION
1	Crystal
2	Ground
3	Crystal
4	Ground

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



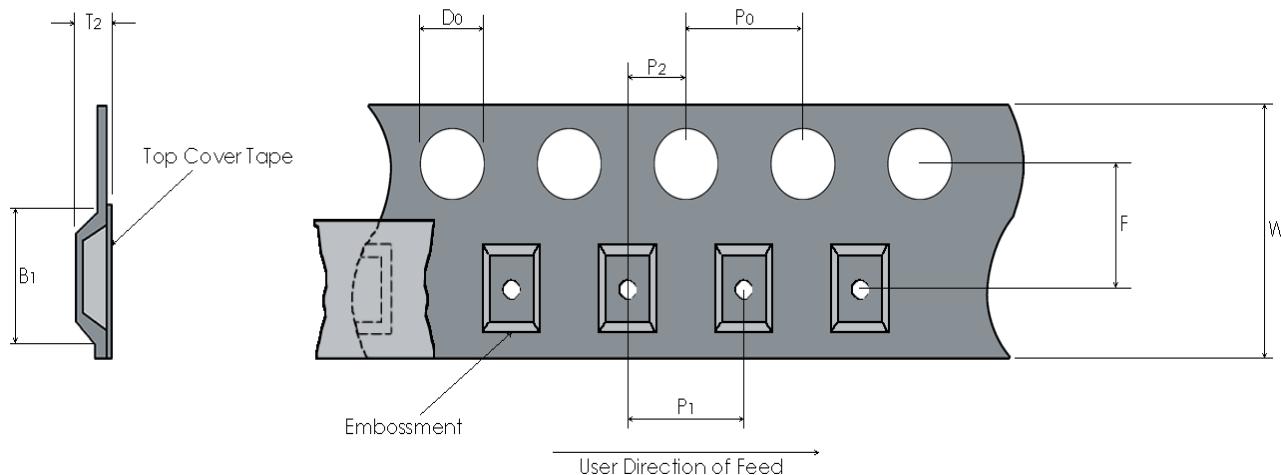
- Notes
- 1) Connection Pads: Gold(10-40 μ in.) over Nickel (100-250 μ in.)
 - 2) Weight = 1.5gms typical

Performance Specifications

Parameter	Conditions	Values	Unit
Frequency Range		12.0 – 60.0	MHz
Frequency Tolerance	@ + 25 C	±50 Max (see options)	ppm
Frequency Stability		±100 Max (see options)	ppm
Aging	Max 1 st Year	±3.0	ppm
Equivalent Series Resistance (max)	12.0 – 15.0 MHz	150	Ω
	16.0 – 29.0 MHz	100	Ω
	30 – 60.0 MHz	60	Ω
Insulative Resistance	Min @ 100Vdc ±15V	500	MegΩ
Drive Level		10 Typ, 100 Max	μW
C0 (Shunt Capacitance)	Max	5.0	pF
CL (Load Capacitance)	Per Option (typical)	6-20 (see options)	pF
DLD	50 nW to 100μW	±10 Max	ppm
RLD	50 nW to 100μW	20% Max	Ω
Operating Temp Range		-20 to +70 / -40 to +85	°C
Storage Temp Range		-55 to +125	°C
Sealing Method		Seam Weld	
Moisture Sensitivity Level	1		

Tape and Reel

Embossed Carrier Dimensions (8mm, 12mm, 16mm, 24mm Tape Only)



Tape Dimensions (mm)								Reel Dimensions (mm)	
W	F	Do	Po	P1	P2	B1	T2	Outside Dia.	Parts / Reel
8	3.5	1.5	4.0	4.0	2.0	2.7	0.8	180	1,000

Recommended Reflow Profile

Reflow Profile: in accordance to IPC/JEDEC J-STD-020 (Latest Revision)

Additional Notes:

- This part has been designed for pick and place reflow soldering
- This part may be reflowed once
- This part should not be reflowed in the inverted position

Packaging

Packaging: All packaging must conform to ESD Controls detailed in ANSI/ESD S20.20 (Latest Revision)

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