

FEATURES

- ✓ SMD Construction
- ✓ Standard 5X3.2mm Package Size
- ✓ Mil-Std-202 Compliant
- ✓ CMOS/HCMOS Output

Crystal Oscillator

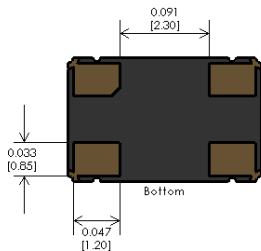
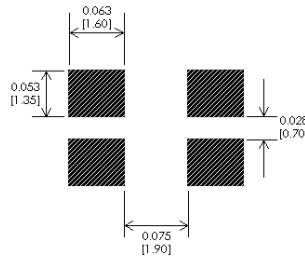
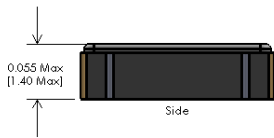
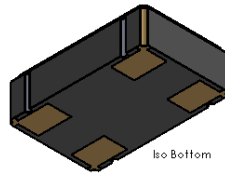
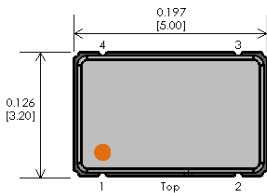
#blileytakesyoufurther

Part Number Configuration

BOCS5 – **XXXXM** – **CT**

Center Frequency	Voltage	Output Control	Frequency Stability	Operating Temperature
32.768kHz 1MHz to 150MHz	B: 1.8Vdc D: 3.3Vdc E: 5.0Vdc	T: Tristate N: N.C.	A: ±25ppm B: ±50ppm	B: -20°C to +70°C C: -40°C to +85°C

Physical Specifications



PIN	FUNCTION
1	Tristate/N.C.
2	Ground
3	Output
4	Vdc

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

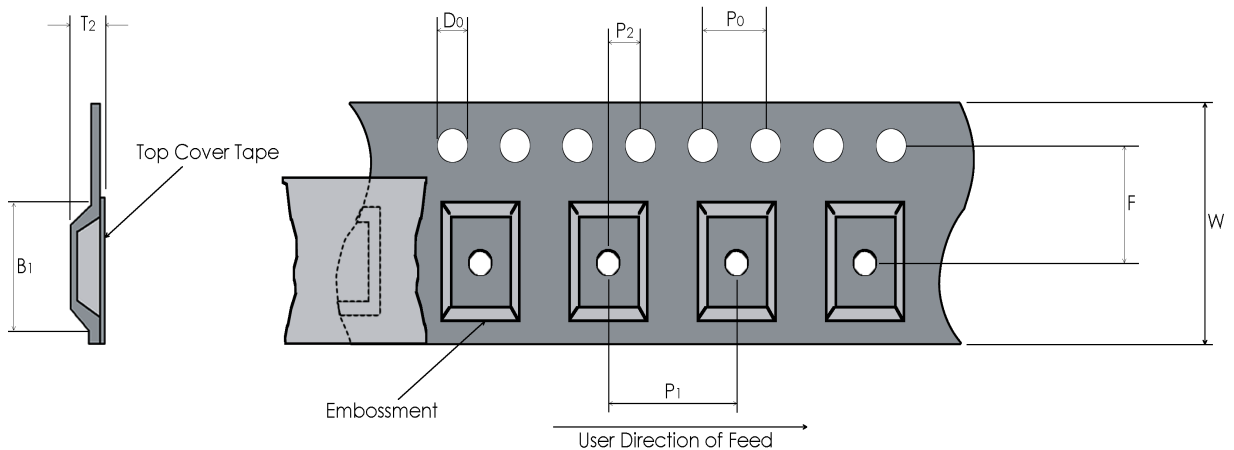
Performance Specifications

Parameter	Conditions	Supply Voltage ($\pm 10\%$)			Unit
		Voltage (Vdd)	1.8	3.3	
Frequency Range		32.768kHz and 1-150MHz			
Output Type & Load	CMOS/HCMOS	15pf/10TTL			
Frequency Stability		± 25 or ± 50			ppm
Current Consumption @10 MHz	Typical	10	15	20	mA
Current Consumption @100 MHz	Typical	25	45	60	mA
Output Levels	Typical	10% Vdd Logic 0 90% Vdd Logic 1			Vdc
Rise Time (10% to 90% Vdd) Fall Time (90% to 10% Vdd)	Typical	6	8	10	ns
Duty Cycle		40/60			%
Tristate	Enabled-High Disabled-Low				
Startup Time		10			ms
Operating Temperature Range		-20 to +70 / -40 to +85			$^{\circ}\text{C}$
Storage Temperature Range		-55 to +125			$^{\circ}\text{C}$

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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
12	5.5	1.5	4.0	8	2.0	5.5	1.7	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)