

# BOCS7-XXXMXX-XXCT – Crystal Oscillator



## FEATURES

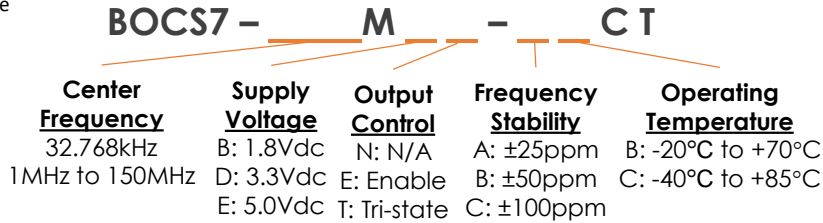
- ✓ SMD Construction
- ✓ Standard 5X7mm Package Size
- ✓ Mil-Std-202 Compliant
- ✓ CMOS/TTL Output

## Crystal Oscillator

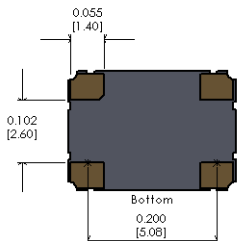
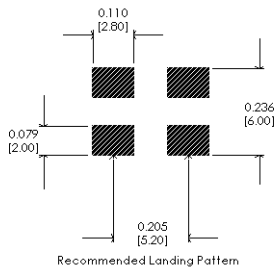
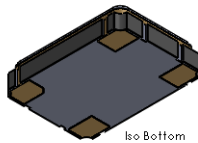
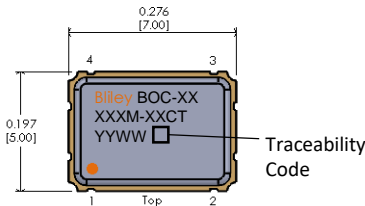
#blileytakesyoufurther

## Part Number Configuration

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



## Physical Specifications



PIN	FUNCTION
1	Output Control
2	Ground
3	RF Output
4	Supply Voltage

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

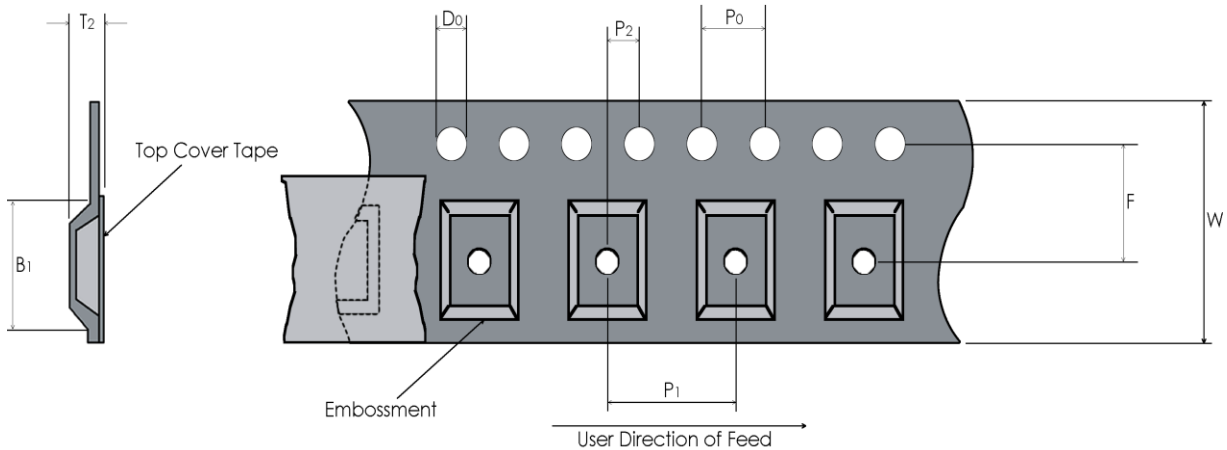
Parameter	Conditions	Values			Unit
		MIN	TYP	MAX	
General		MIN	TYP	MAX	Vdc
Frequency Range	(and 32.768kHz)	1.0		150.0	MHz
Frequency Stability	Over Temperature Range	±25, ±50, ±100			ppm
Supply Voltage(Vdd)	Option B	1.62	1.8	1.98	Vdc
	Option D	2.97	3.3	3.63	Vdc
	Option E	4.5	5.0	5.5	Vdc
Current Consumption	@10MHz		15	20	mA
	@100MHz		45	60	mA
Output Control	Enabled-High Disabled-Low				
Startup Time			10		mSec

Parameter	Conditions	Values			Unit
		MIN	TYP	MAX	
Output Characteristics (CMOS/TTL)		MIN	TYP	MAX	
High Output Level	Logic 1	1.0			Vdc
Low Output Level	Logic 0			10% Vdd	Vdc
Rise/Fall Time	10% ↔ 90%	1.62	8	10	nSec
Duty Cycle		2.97	50	60	%
Load	CMOS	4.5	15		pF
	TTL		10		pF

Parameter	Conditions	Values			Unit
		MIN	TYP	MAX	
Environmental		MIN	TYP	MAX	
Operating Temperature	Option B	-20		+70	°C
Operating Temperature	Option C	-40		+85	°C
Storage Temperature		-55		+125	°C
Seal	MIL-STD-202 Method 112 Test Condition C & D				

## 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
16	7.5	1.5	4.0	8	2.0	7.3	1.8	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)