

**Features**

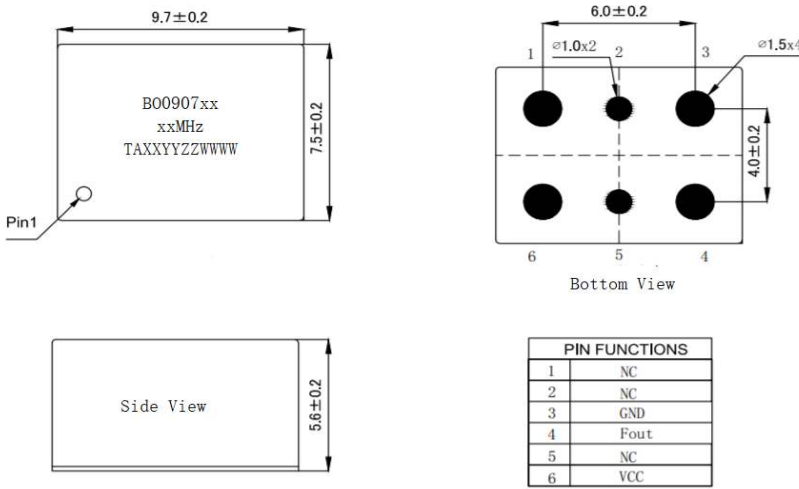
- Ultra Stable
- Wide Temperature Range
- SMD(9.0mm\*7.0mm)

**Applications**

- Base Stations
- Instrumentations
- Others

**BO0907L Specifications**

Parameter	Value			Unit	Conditions	
	Min.	Typ.	Max.			
Supply Voltage	–	3.3	–	V	V <sub>CC</sub> ±5%	
Power Consumption	–	–	2.5	W		
	–	–	1.0	W		
Frequency Range	5~50			MHz		
Nominal Frequency	10, 40					
Initial Frequency Tolerance	–	–	±500	ppb	At shipment, nominal EFC, +25°C	
Freq. Stability Vs. Temp.	±5	–	–	ppb	-40°C ~ +70°C	
	±10	–	–	ppb	-40°C ~ +85°C	
HCMOS	V <sub>OH</sub>	2.7	–	–	V	HCMOS Output, Load=15pf
	V <sub>OL</sub>	–	–	0.3	V	HCMOS Output, Load=15pf
	Duty Cycle	45	–	55	%	(V <sub>OH</sub> - V <sub>OL</sub> )/2
	Rise/Fall edge	–	–	5	ns	HCMOS Output, Load=15pf
	Load	–	15	–	pf	
Warm-up Time	–	–	3	Min	At +25°C, with accuracy of ±100ppb	
Supply Sensitivity	–	–	±2.0	ppb	V <sub>CC</sub> ±5%	
Load Sensitivity	–	–	±2.0		Load±5%	
Aging per Day	–	–	±2.0		After 30 days of operation	
Aging per Year	–	–	±500		After 30 days of operation	
SSB Phase Noise @10MHz	–	–	-110	dBc/Hz	Offset 10Hz	At +25°C
	–	–	-135		Offset 100Hz	
	–	–	-150		Offset 1kHz	
	–	–	-155		Offset 10kHz	
	–	–	-155		Offset 100kHz	
Control Voltage Range	0.5	1.5	2.5	V	3.3V	
Frequency Turning Range	±0.5	–	±2.0	ppm		
Tuning Slope	Positive					

Environmental Conditions															
Operating Temperature Range	-40°C~+85°C														
Storage Temperature Range	-55°C~+125°C														
Reliability															
Parameter	Condition														
Temperature Stress Test	IEC60068, GJB360B														
Mechanical Stress Test	IEC60068, GJB360B														
EMC Test (ESD)	IEC61000, JESD22														
Solder Ability	EIA/JESD22-B102-C														
RoHS	RoHS Directive 2011/65/EU Annex II Recasting 2002/95/EC														
Outline Dimension & Pin Connections															
 <table border="1" data-bbox="890 1032 1077 1182"> <thead> <tr> <th colspan="2">PIN FUNCTIONS</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>NC</td> </tr> <tr> <td>2</td> <td>NC</td> </tr> <tr> <td>3</td> <td>GND</td> </tr> <tr> <td>4</td> <td>Fout</td> </tr> <tr> <td>5</td> <td>NC</td> </tr> <tr> <td>6</td> <td>VCC</td> </tr> </tbody> </table>		PIN FUNCTIONS		1	NC	2	NC	3	GND	4	Fout	5	NC	6	VCC
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Ordering Guide															
<b>BO 0907 L X X X XXX X X XX.XX</b>															
<div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;">Product OCXO</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;">Outline 9.0mm x 0.7mm</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;">Freq. Range: L: &lt;50MHz</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;">Output: H: CMOS S: Sine Wave</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;">Supply Voltage: 5: 5.0 Vdc 3: 3.3 Vdc</div> <div style="border: 1px solid black; padding: 2px;">Temp. Range: C: -20°C ~ +70°C G: -40°C ~ +70°C I: -40°C ~ +85°C</div>	<div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;">Frequency: xx MHz</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;">Tuning: N: No Tuning E: ≥±500ppb D: ≥±1000ppb</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;">Phase Noise D: -135dBc/Hz@1kHz E: -140dBc/Hz@1kHz G: -145dBc/Hz@1kHz H: -150dBc/Hz@1kHz</div> <div style="border: 1px solid black; padding: 2px;">Stability 107: ±100ppb 508: ±50ppb 208: ±20ppb</div>														
<b>Example:</b> BO1220LH5C107DN10															