
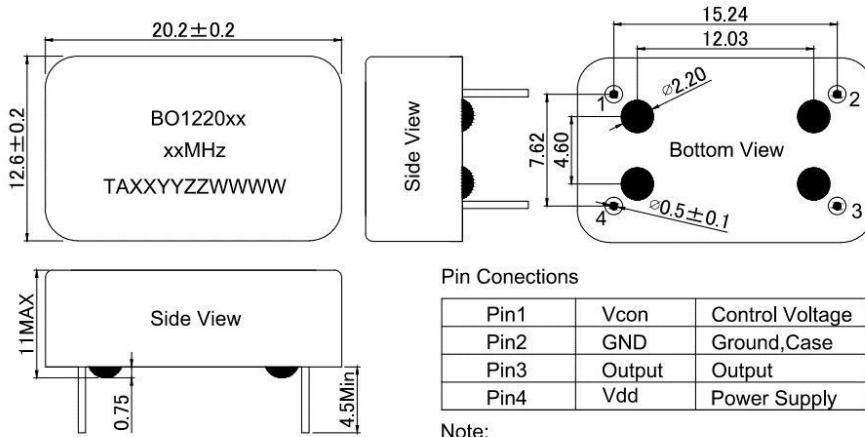


Features		Applications				
<ul style="list-style-type: none"> <li>● Ultra Stable</li> <li>● Wide Temperature Range</li> <li>● DIP(20.2mm*12.6mm)</li> </ul>		<ul style="list-style-type: none"> <li>● Base Stations</li> <li>● Instrumentations</li> <li>● Others</li> </ul>				
						
BO1220L Specifications						
Parameter	Value			Unit	Conditions	
	Min.	Typ.	Max.			
Supply Voltage	-	3.3	-	V	V <sub>cc</sub> ±5%	
	-	5.0	-	V	V <sub>cc</sub> ±5%	
Power Consumption	-	-	3.0	W		
	-	-	1.5	W		
Frequency Range	10 ~ 40			MHz		
Nominal Frequency	10					
Initial Frequency Tolerance	-	-	±100	ppb	At shipment, nominal EFC, +25°C	
Freq. Stability Vs. Temp.	±5	-	±100	ppb	-40°C ~ +70°C	
	±50	-	±100	ppb	-40°C ~ +85°C	
	-	-	±200	ppb	-55°C ~ +85°C	
Sine Wave	Output Level	7	-	-	dBm	
	Harmonious	-	-	-40	dBc	
	Spurious	-	-	-80	dBc	
	Load	-	50	-	Ω	
HCMOS	V <sub>OH</sub>	2.4	-	-	V	HCMOS Output, Load=15pf
	V <sub>OL</sub>	-	-	0.4	V	HCMOS Output, Load=15pf
	Duty Cycle	45	-	55	%	(V <sub>OH</sub> - V <sub>OL</sub> )/2
	Rise/Fall edge	-	-	6	ns	HCMOS Output, Load=15pf
	Load	-	15	-	pf	
Warm-up Time	-	-	3	Min	At +25°C, with accuracy of ±100ppb	
Supply Sensitivity	-	-	±5	ppb	V <sub>cc</sub> ±5%	
Load Sensitivity	-	-	±5		Load±5%	
Aging per Day	-	-	±1		After 30 days of operation	
Aging per Year	-	-	±100		After 30 days of operation	
SSB Phase Noise @10MHz	-	-	-115	dBc/Hz	Offset 10Hz	At +25°C
	-	-	-130		Offset 100Hz	
	-	-	-150		Offset 1kHz	
	-	-	-155		Offset 10kHz	
	-	-	-160		Offset 100kHz	
Control Voltage Range	0	-	3	V	3.3V	
	0	-	5	V	5V	
Frequency Tuning Range	±0.5	-	±2.0	ppm		
Tuning Slope	Positive					
Environmental Conditions						
Operating Temperature Range	-55°C~+85°C					
Storage Temperature Range	-55°C~+125°C					

### Outline Dimension & Pin Connections

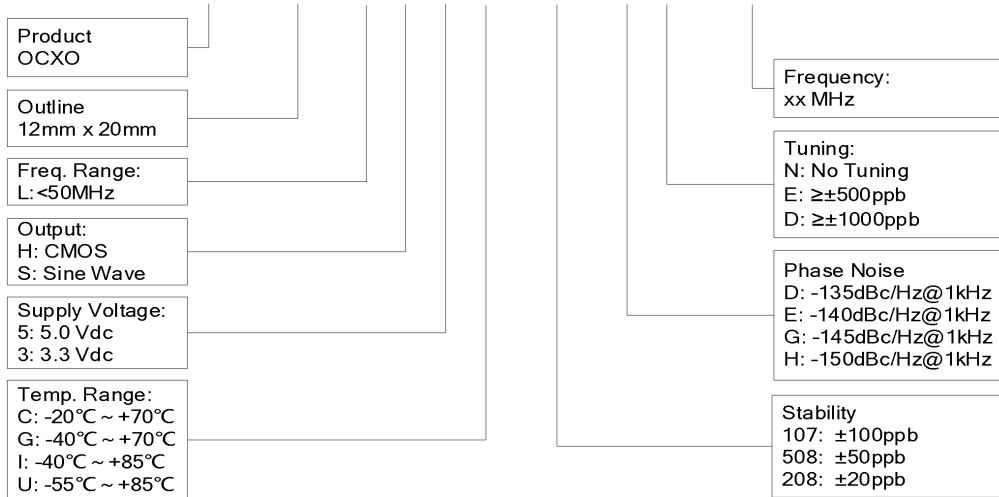


### Reliability

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

### Ordering Guide

BO 1220 L X X X XXX X X XX.XX



**Example:** BO1220LH5C107DN10

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