

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 _{cc} ±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	-20°C ~ +70°C	
	±10	–	–	ppb	-45°C ~ +85°C	
CMOS	V _{OH}	2.7	–	V	HCMOS Output, Load=15pf	
	V _{OL}	–	–	0.3	V	HCMOS Output, Load=15pf
	Duty Cycle	45	–	55	%	(V _{OH} - V _{OL})/2
	Rise/Fall edge	–	–	5	ns	HCMOS Output, Load=15pf
	Load	–	15	–	pf	
Short-term Stability@10MHz	–	–	1×10 ⁻¹¹	ppb/s	After 60 mins of operation	
Supply Sensitivity	–	–	±2.0	ppb	V _{cc} ±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	
	–	–	-135		Offset 100Hz	
	–	–	-150		Offset 1kHz	
	–	–	-155		Offset 10kHz	
	–	–	-155		Offset 100kHz	
Control Voltage Range	–	1.5	2.5	V	At +25°C	
Frequency Tuning Range	±0.5	–	±2.0	ppm		
Tuning Slope	Positive					
Input impedance	100	–	–	KΩ		

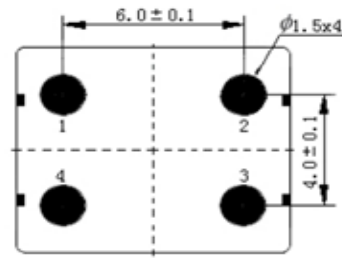
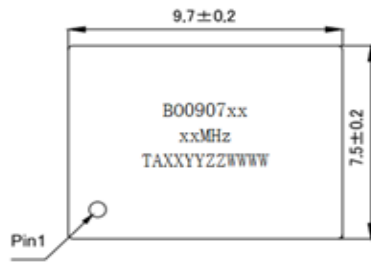
Environmental Conditions

Operating Temperature Range	-45°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

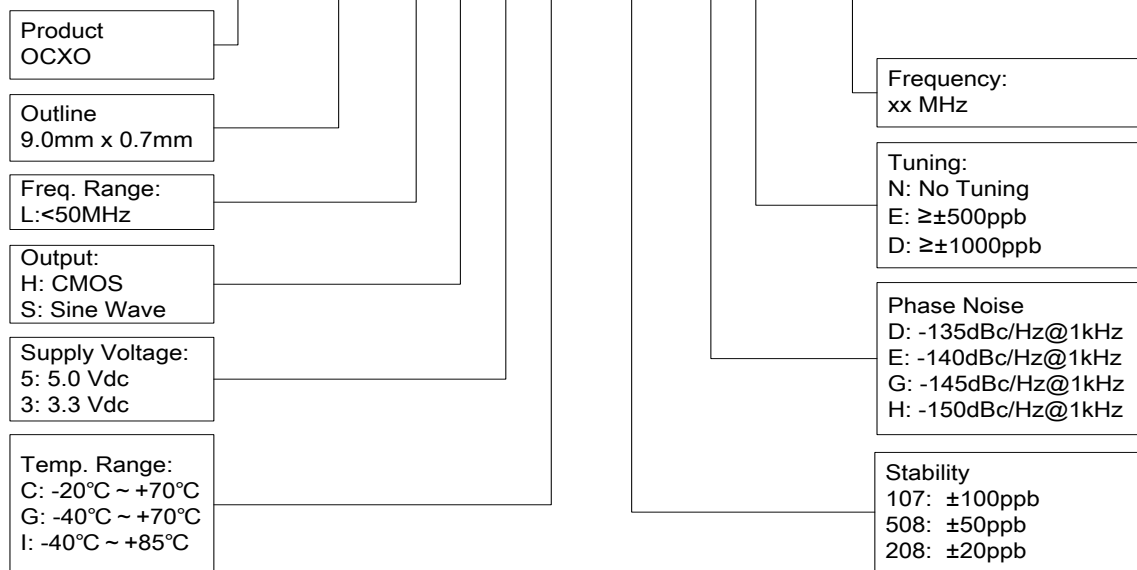
Outline Dimension & Pin Connections



PIN FUNCTIONS	
1	NC
2	GND
3	Fout
4	VCC

Ordering Guide

BO 0907 L X X X XXX X X XX.XX



Example: BO0907LH5C107DN10

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