

Features

- Ultra Stable
- Wide Temperature Range
- Fast Warming-up
- DIP(36mm*27mm)

Applications

- Base Stations
- Instrumentations
- Medical Electronics

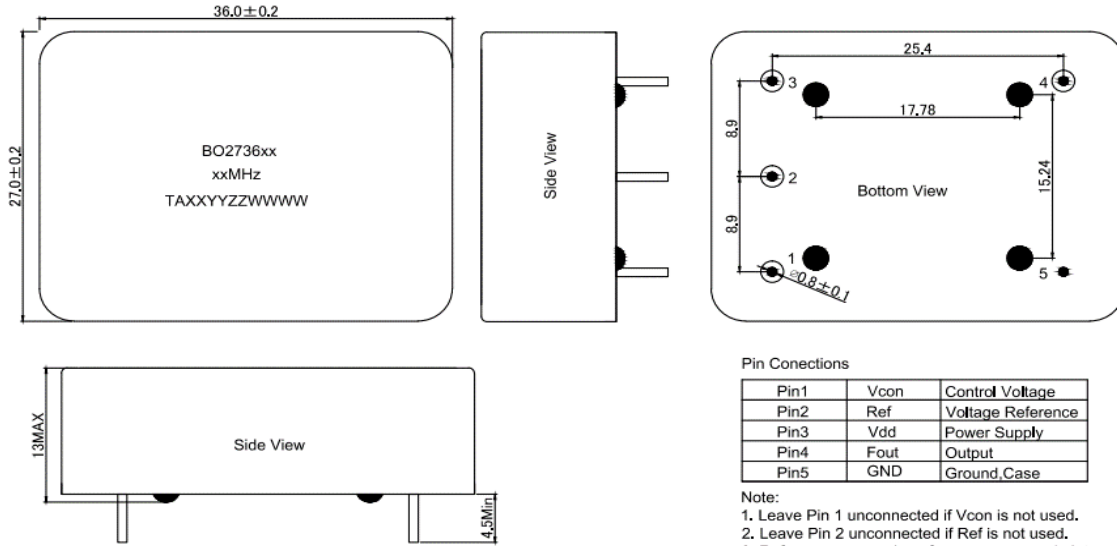

BO2736L Specifications

Parameter	Value			Unit	Condition	
	Min.	Typ.	Max.			
Supply Voltage	–	5.0	–	V	V _{CC} ±5%	
	–	12.0	–	V	V _{CC} ±5%	
Power Consumption	–	–	5.0	W		
	–	–	1.5	W		
Frequency Range	10 ~ 40			MHz		
Nominal Frequency	10, 20, 40			MHz		
Initial Frequency Tolerance	–	–	±100	ppb	At shipment, nominal EFC	
Freq. Stability Vs. Temp.	±1	–	±10	ppb	-20°C ~ +70°C	
	±3	–	±10	ppb	-40°C ~ +70°C	
	±5	–	±20	ppb	-40°C ~ +85°C	
	–	–	±50	ppb	-55°C ~ +85°C	
Sine Wave	Output Level	7	–	–	dBm	
	Harmonics	–	–	-40	dBc	
	Spurious	–	–	-80	dBc	
	Load	–	50	–	Ω	
HCMOS	V _{OH}	2.4	–	–	V	HCMOS Output, Load=15pf
	V _{OL}	–	–	0.4	V	HCMOS Output, Load=15pf
	Duty Cycle	45	–	55	%	(V _{OH} - V _{OL})/2
	Rise/Fall Edge	–	–	6	ns	HCMOS Output, Load=15pf
	Load	–	15	–	pf	
Short-term Stability@10MHz	–	–	2×10 ⁻¹²	ppb/s	Test after 15 Min.	
Warm-up Time	–	–	5	Min	At +25°C, with tolerance ±100ppb	
Supply Sensitivity	–	–	±0.5	ppb	V _{CC} ±5%	
Load Sensitivity	–	–	±0.5		Load±5%	
Aging per Day	–	–	±0.5		After 30 days of operation	
Aging per Year	–	–	±50		After 30 days of operation	
SSB Phase Noise @10MHz	–	–	-130	dBc/Hz	Offset 10Hz	@+25°C
	–	–	-150		Offset 100Hz	
	–	–	-165		Offset 1kHz	
	–	–	-170		Offset 10kHz	
	–	–	-170		Offset 100kHz	
Control Voltage Range	0	–	5	V		
Frequency Turning 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				

Reliability

Parameter	Condition
Temperature Stress Test	IEC60068, GJB360B
Mechanical Stress Test	IEC60068, GJB360B
EMC Test (ESD)	IEC61000, JESD22
Solderability	EIA/JESD22-B102-C
RoHS	RoHS Directive 2011/65/EU Annex II Recasting 2002/95/EC

Outline Dimension & Pin Connections



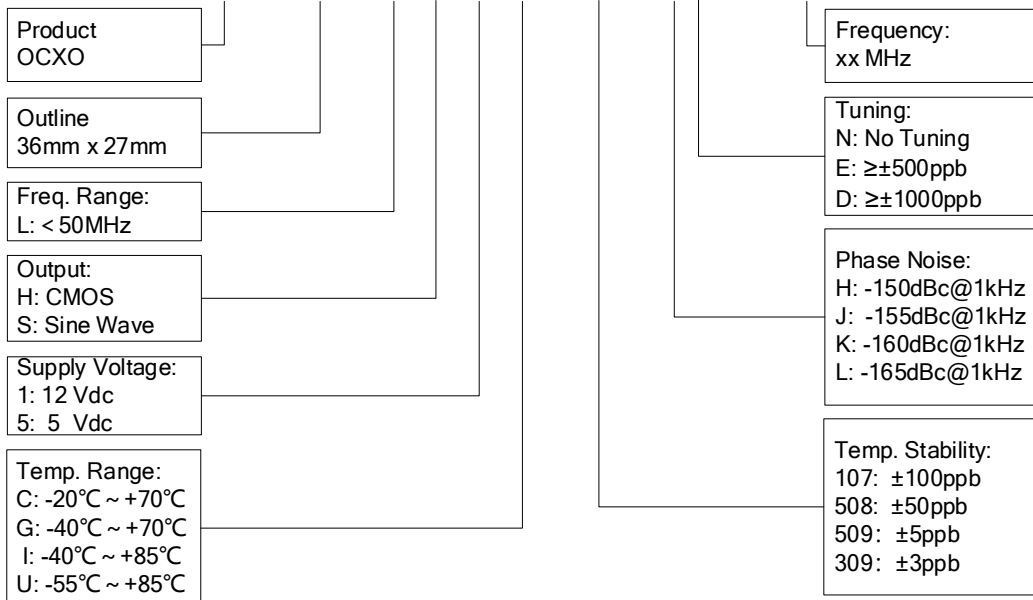
Pin Connections

Pin1	Vcon	Control Voltage
Pin2	Ref	Voltage Reference
Pin3	Vdd	Power Supply
Pin4	Fout	Output
Pin5	GND	Ground_Case

Note:
 1. Leave Pin 1 unconnected if Vcon is not used.
 2. Leave Pin 2 unconnected if Ref is not used.
 3. Reference connection of voltage control circuit.

Ordering Guide

BO 2736 L X X X XXX X X XX.XX



Example: BO2736LH5C509HN10

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