

Features

- Ultra Stable
- Wide Temperature Range
- Fast Warming-up

Applications

- Base Stations
- Instrumentations
- Medical Electronics


BO2736L Specifications

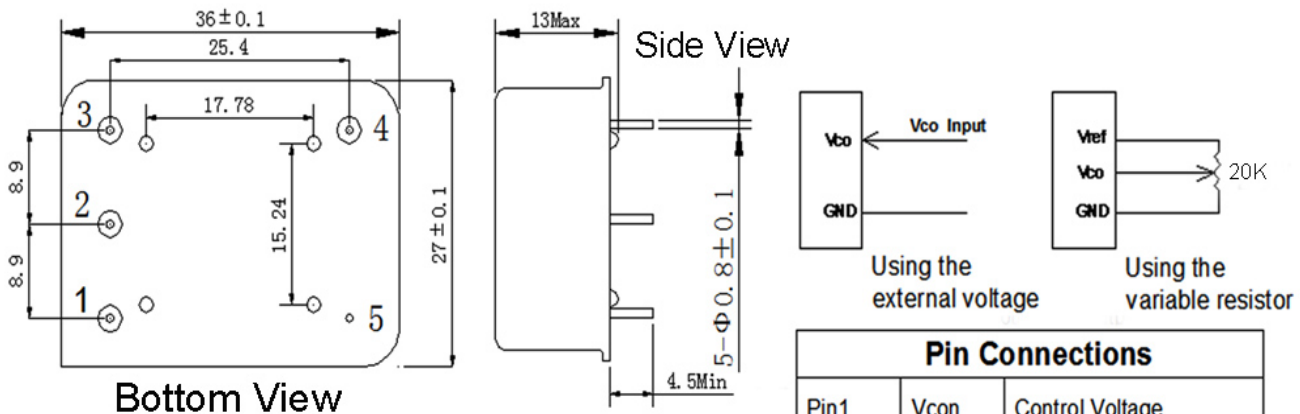
Parameter	Value			Unit	Condition	
	Min.	Typ.	Max.			
Supply Voltage	-	5.0	-	V		
	-	12.0	-	V		
Power Consumption	-	-	5.0	W	During Warming-up	
	-	-	1.5	W	Steady at +25°C & still air	
Frequency Range	10 ~ 40			MHz		
Nominal Frequency	10			MHz		
Initial Frequency Tolerance	-	-	±100	ppb	At shipment, nominal 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	-	-	-35	dBc	
	Spurious	-	-	-70	dBc	
	Load	-	50	-	Ω	
LVTTTL	V _{OH}	2.4	-	-	V	LVTTTL Output, Load=15pf
	V _{OL}	-	-	0.4	V	LVTTTL Output, Load=15pf
	Duty Cycle	45	-	55	%	(V _{OH} - V _{OL})/2
	Rise/Fall Edge	-	-	6	ns	LVTTTL Output, Load=15pf
	Load	-	15	-	pf	
Short-term Stability(1S)	-	-	5×10 ⁻¹²		Test after 15 Min.	
Timing Accuracy	-	-	24	us	Test after 24 Us.	
Warm-up Time	-	-	10	Min	At +25°C, with accuracy of ±5ppb	
Supply Sensitivity	-	-	±5	ppb	Vcc±5%	
Load Sensitivity	-	-	±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	-125	-	-	dBc/Hz	Offset 10Hz	@+25°C
	-145	-	-		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

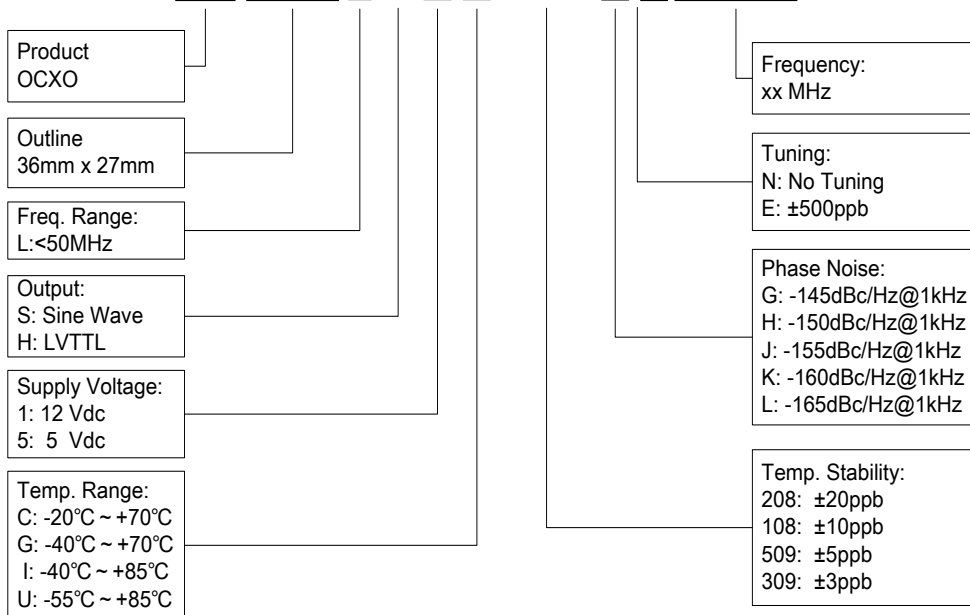
Reliability

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

Note:

1. Leave pin 1 unconnected if Vcon is not used.
2. Leave pin 2 unconnected if Vref is not used.
3. Reference connection of voltage control circuit.

Pin Connections		
Pin1	Vcon	Control Voltage
Pin2	Vref	Reference Voltage
Pin3	Vdd	Power Supply
Pin4	Fout	Output
Pin5	GND	Ground, Case

Ordering Guide
BO 2736 L X X X XXX X X XX.XX

Example: BO2736LH5C509HN10

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