

Features

- Ultra Stable
- Wide Temperature Range
- DIP Package(25mm*25mm)

Applications

- Base Stations
- Instrumentations
- Synthesizer
- Medical Electronics


BO2525H Series Specifications

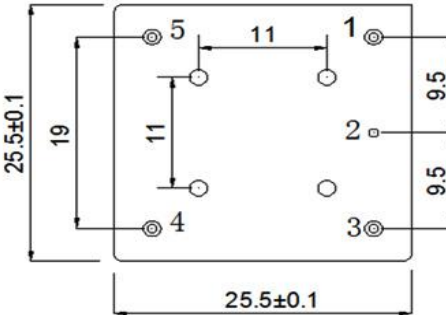
Parameter	Value			Unit	Condition	
	Min.	Typ.	Max.			
Supply Voltage	-	5.0	-	V		
	-	12.0	-	V		
Power Consumption	-	-	4.0	W	During Warming-up	
	-	-	1.5	W	Steady at +25°C & still air	
Frequency Range	50 ~ 120			MHz		
Nominal Frequency	80,100			MHz		
Initial Frequency Tolerance	-	-	±300	ppb	At shipment, nominal EFC	
Freq. Stability Vs. Temp.	±50	-	±100	ppb	-20°C ~ +70°C	
	±50	-	±100	ppb	-40°C ~ +70°C	
	±100	-	±200	ppb	-40°C ~ +85°C	
	±200	-	±500	ppb	-55°C ~ +85°C	
Sine Wave	Output Level	7	-	-	dBm	
	Harmonics	-	-	-30	dBc	
	Spurious	-	-	-70	dBc	
	Load	-	50	-	Ω	
Warm-up Time	0	-	5	Min	At +25°C, with accuracy of ±100ppb	
Supply Sensitivity	-	-	±5	ppb	Vcc±5%	
Load Sensitivity	-	-	±5		Load±5%	
Aging per Day	-	-	±2		After 30 days of operation	
Aging per Year	-	-	±200		After 30 days of operation	
SSB Phase Noise @100MHz	-	-	-100	dBc/Hz	Offset 10Hz	At +25°C
	-	-	-130		Offset 100Hz	
	-	-	-160		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

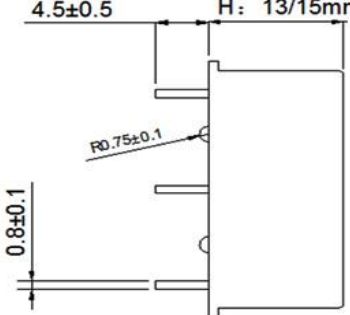
Parameter	Condition
Temperature Stress Test	IEC60068, GJB360B
Mechanical Stress Test	IEC60068, GJB360B
EMC Test (ESD)	IEC61000, JESD22
Solderability	EIA/JESD22-B102-C
RoHS	RoHS Directive 2011/65/EU Annex II Recasting 2002/95/EC

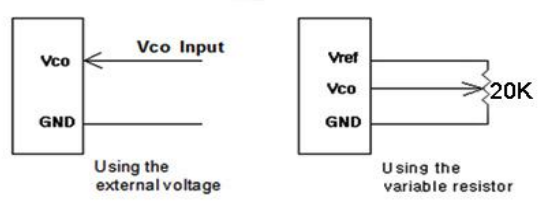
Outline Dimension & Pin Connections

Bottom View



Side View





Using the external voltage

Using the variable resistor

Note:

1. Leave pin 3 unconnected if Vcon is not used.
2. Leave pin 4 unconnected if Vref is not used.
3. Reference connection of voltage control circuit.

Pin Connections

Pin	Function	Notes
Pin1	Fout	Output
Pin2	GND	Ground, Case
Pin3	Vcon	Control Voltage
Pin4	Ref.	Voltage Reference
Pin5	Vdd	Power Supply

Ordering Guide

BO 2525 H S X X XXX X X XX.XX

<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 25mm x 25mm</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;">Freq. Range: H: ≥50MHz</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;">Output: S: Sine Wave</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;">Supply Voltage: 1: 12 Vdc 5: 5 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 U: -55°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: E: -140dBc@1kHz G: -145dBc@1kHz H: -150dBc@1kHz J: -155dBc@1kHz K: -160dBc@1kHz</div> <div style="border: 1px solid black; padding: 2px;">Temp. Stability: 507: ±500ppb 307: ±300ppb 207: ±200ppb 107: ±100ppb 508: ±50ppb</div>
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Example: BO2525HS1C508HN100