

Features

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

Applications

- Base Stations
- Instrumentations
- Synthesizer
- Medical Electronics

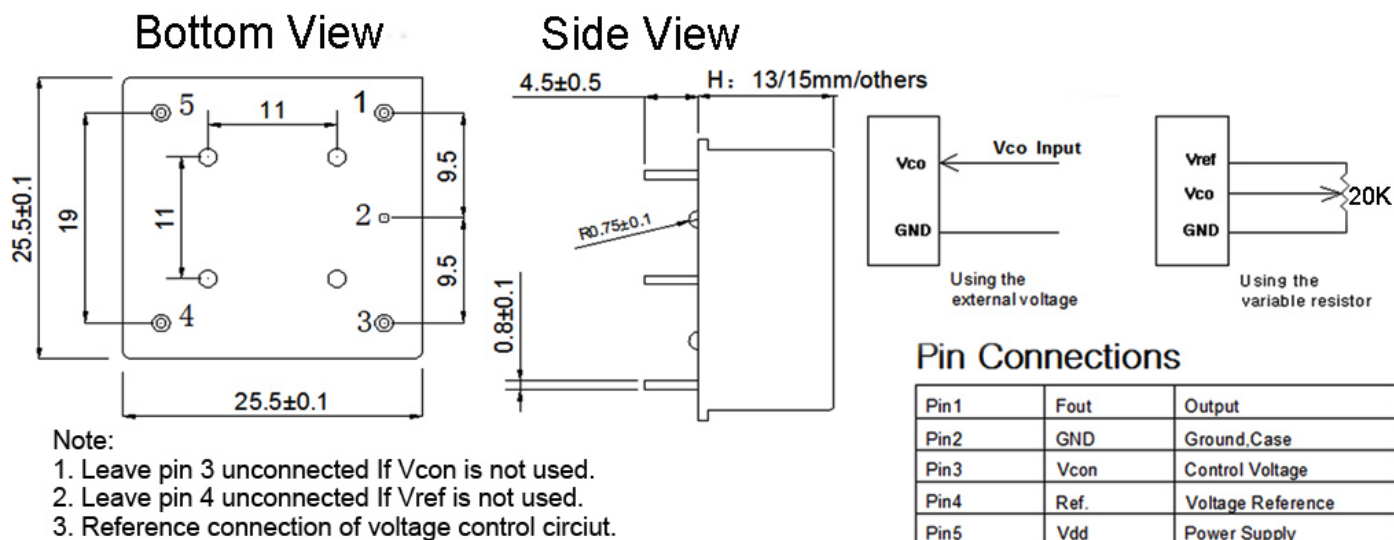

BO2525H Series Specifications

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℃ & 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℃ ~ +70℃	
		±50	–	±100	ppb	-40℃ ~ +70℃	
		±100	–	±200	ppb	-40℃ ~ +85℃	
		±200	–	±500	ppb	-55℃ ~ +85℃	
Sine Wave	Output Level	7	–	–	dBm		
	Harmonics	–	–	-30	dBc		
	Spurious	–	–	-70	dBc		
	Load	–	50	–	Ω		
Warm-up Time		0	–	5	Min	At +25℃, with accuracy of ±100ppb	
Supply Sensitivity		–	–	±20	ppb	Vcc±5%	
Load Sensitivity		–	–	±20		Load±5%	
Aging per Day		–	–	±10		After 30 days of operation	
Aging per Year		–	–	±1000		After 30 days of operation	
SSB Phase Noise @100MHz		-100	–	–	dBc/Hz	Offset 10Hz	At +25℃
		-130	–	–		Offset 100Hz	
		-160	–	–		Offset 1kHz	
		-165	–	–		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℃~+85℃				
Storage Temperature Range			-55℃~+125℃				

Reliability

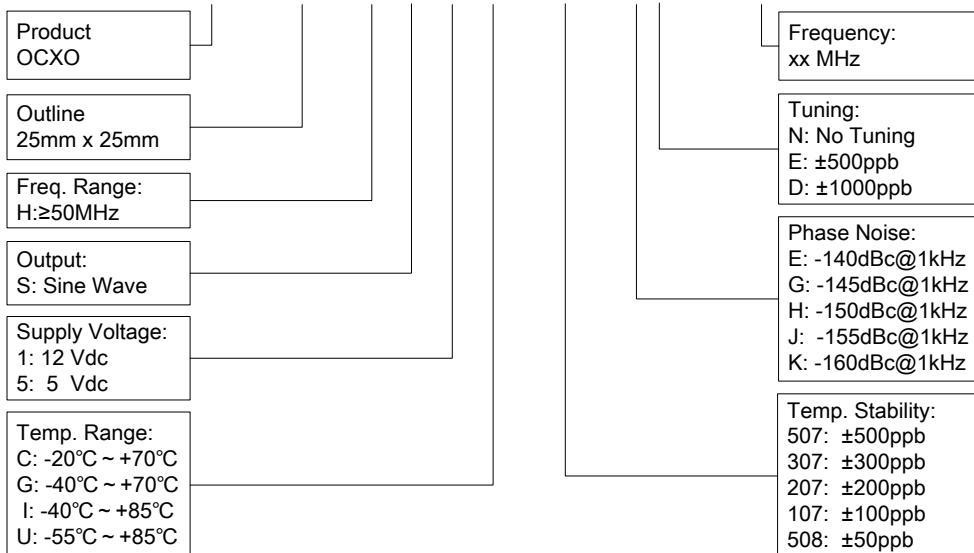
Parameter	Condition
Temperature Stress Test	IEC60068, GJB360B
Mechanical Stress Test	IEC60068, GJB360B
EMC Test (ESD)	IEC61000, JESD22
Solderability	EIA/JESD22-B102-C
RoHS	RoHS Directive 2011/65/EU Annex II Recasting 2002/95/EC

Outline Dimension & Pin Connections



Ordering Guide

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



Example: BO2525HS1C508HN100

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