

**Features**

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

**Applications**

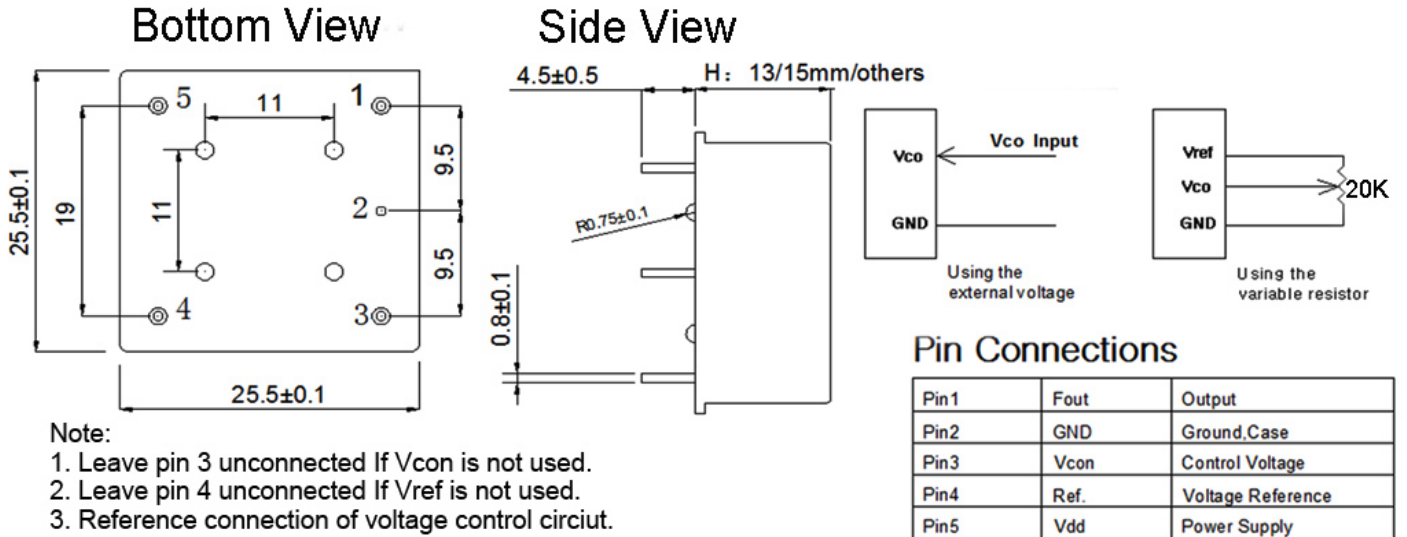
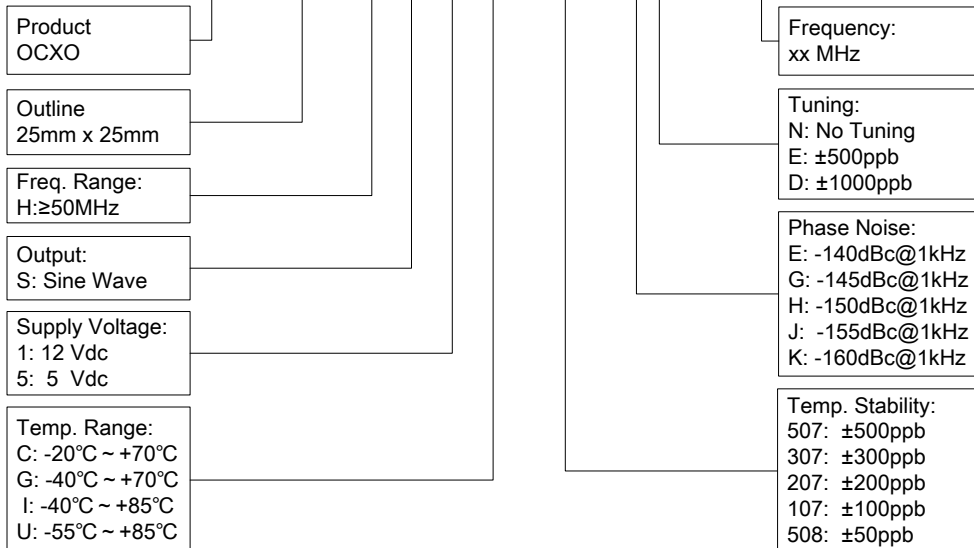
- Base Stations
- Instrumentations
- Synthesizer
- Medical Electronics


**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°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	-	-	±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°C
	-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°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**

**Ordering Guide**
**BO 2525H S X X XXX X X XX.XX**


**Example:** BO2525HS1C508HN100

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