

Features

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

Applications

- Base Stations
- Instrumentations
- Synthesizer
- Medical Electronics



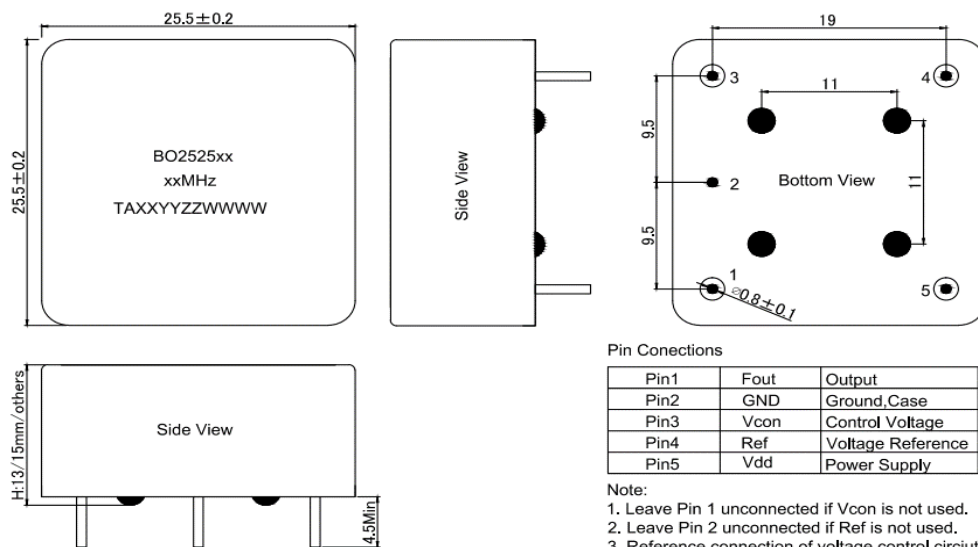
BO2525H Series Specifications

Parameter		Value			Unit	Condition	
		Min.	Typ.	Max.			
Supply Voltage		—	5.0	—	V	Vcc±5%	
		—	12.0	—	V	Vcc±5%	
Power Consumption		—	—	4.0	W		
		—	—	1.5	W		
Frequency Range		50 ~ 120			MHz		
Nominal Frequency		50, 80,100, 120			MHz		
Initial Frequency Tolerance		—	—	±300	ppb	At shipment, nominal EFC	
Control Voltage Range		±50	—	±100	ppb	-40℃ ~ +70℃	
		±100	—	±200	ppb	-40℃ ~ +85℃	
		±200	—	±500	ppb	-55℃ ~ +85℃	
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		
Sine Wave	Output Level	7	—	—	dBm		
	Harmonics	—	—	-40	dBc		
	Spurious	—	—	-80	dBc		
	Load	—	50	—	Ω		
Short-term Stability@100MHz		—	—	1×10 ⁻¹¹	ppb/s	Test after 15 Min.	
Warm-up Time		0	—	5	Min	At +25℃, 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℃,Sinewave
		—	—	-135		Offset 100Hz	
		—	—	-160		Offset 1kHz	
		—	—	-170		Offset 10kHz	
		—	—	-173		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 2525 H X X X XXX X X XX.XX

Product
OCXO

Outline
25mm x 25mm

Freq. Range:
H: ≥50MHz

Output:
H: CMOS
S: Sine Wave

Supply Voltage:
1: 12 Vdc
5: 5 Vdc

Temp. Range:
C: -20°C ~ +70°C
G: -40°C ~ +70°C
I: -40°C ~ +85°C
U: -55°C ~ +85°C

Frequency:
xx MHz
e.g.: 100 (100MHz)

Tuning:
N: No Tuning
E: ≥±500ppb
D: ≥±1000ppb

Phase Noise:
H: -150dBc@1kHz
J: -155dBc@1kHz
K: -160dBc@1kHz

Temp. Stability:
307: ±300ppb
207: ±200ppb
107: ±100ppb
508: ±50ppb

Example: BO2525HS1C508HN100

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