

OSA 2230 BVA Frequency Standard

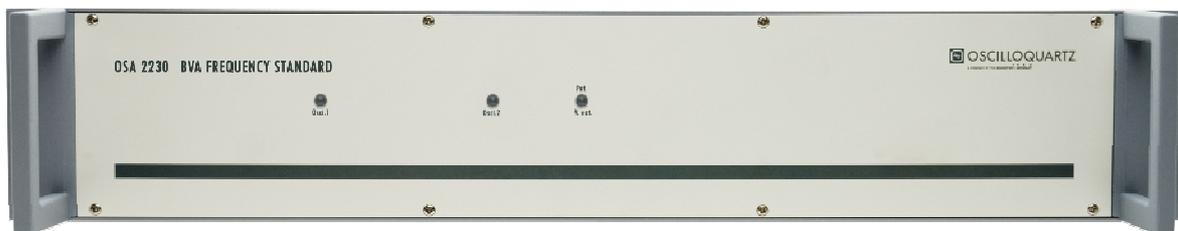
Dual 5MHz Frequency Standard

OSA 2230 BVA FREQUENCY STANDARD

OVERVIEW

Stable frequency sources are crucial for test equipment, references and synchronization of the telecommunication networks.

To achieve this, the OSA 2230 BVA Frequency standard houses two independent 5MHz state of the art SC cut crystal BVA 8607 oscillators. These BVA oscillators are the industry standard alternative to compact atomic clocks (over 10'000 BVA 8607 oscillators have been shipped). The housing is a 19" subrack. Separate frequency control is provided. Signal distribution is made via BNC connectors mounted on the back panel.



HIGHLIGHTS

- Ultra low phase noise and outstanding short term stability
- Excellent frequency stability over temperature range
- High long term stability
- Dual, independent 5MHz outputs
- Fine frequency adjustment

APPLICATIONS

- Measuring and calibration equipment
- Frequency standard
- GPS and Loran C equipment
- Satellite communications
- Very long base interferometry

OUTLINE AND ELECTRICAL CONNECTIONS

- Power Supply: 220V-230V AC
- Environmental: -30/+60°C
- Mechanical:
 - Size (HxWxD): 2U / 19"
 - Weight: < 5.5kg
- Connectors access:
 - Front panel:
 - first frequency mechanical adjustment
 - second frequency mechanical adjustment
 - Back panel:
 - two output BNC connectors per frequency
 - one BNC Connector for electrical adjustment



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TECHNICAL SPECIFICATION (FOR DETAILED PRECISIONS, SEE OSA 8607 BVA PARTICULAR DATA-SHEET)

Output Signal				
	Number of outputs	4 in total 2 per frequency		
	Frequency each output	5MHz		
	Level value	7dBm / 50Ω		
	Wave form	Sinus		
Frequency Control Range				
	First frequency output	± 10 ⁻⁷ Mechanical		
	Second frequency output	± 10 ⁻⁷ Mechanical / ± 1.510 ⁻⁷ Electrical		
Input Signal				
	Electrical adjustment for second frequency	0 / 10 Volts		
Stability				
	Aging per day	Standard	2x10 ⁻¹¹	
		Option G	1x10 ⁻¹¹	
		Option G	5x10 ⁻¹²	
		Option J	3x10 ⁻¹²	
	Over temperature range	Standard	2x10 ⁻¹⁰ peak to peak -30°/+60°C	
		Option B1	1x10 ⁻¹⁰ peak to peak -30°/+60°C	
		Option C	1x10 ⁻¹⁰ peak to peak -15°/+60°C	
		Option C5	0.5x10 ⁻¹⁰ peak to peak -15°/+60°C	
	Short term stability	Option 8	Sigma Tau <8x10 ⁻¹⁴ , Tau 3 to 30 sec.	
		Option 10	Sigma Tau <1x10 ⁻¹³ , Tau 1 to 30 sec.	
		Option 15	Sigma Tau <1.5x10 ⁻¹³ , Tau 1 to 30 sec.	
		Option 20	Sigma Tau <2x10 ⁻¹³ , Tau 1 to 30 sec.	
Option 25		Sigma Tau <2.5x10 ⁻¹³ , Tau 1 to 30 sec.		
Phase noise BW = 1Hz				
	Standard	1 Hz	-125/dBc	
		10 Hz	-145/dBc	
		100 Hz	-153/dBc	
		1000 Hz	-156/dBc	
		10000 Hz	-156/dBc	
	Option L	1 Hz	-130/dBc	
		10 Hz	-145/dBc	
		100 Hz	-153/dBc	
		1000 Hz	-156/dBc	
		10000 Hz	-156/dBc	



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