

XO5085 Series

1x1 inch, 12 Volt, Sinewave, OCXO



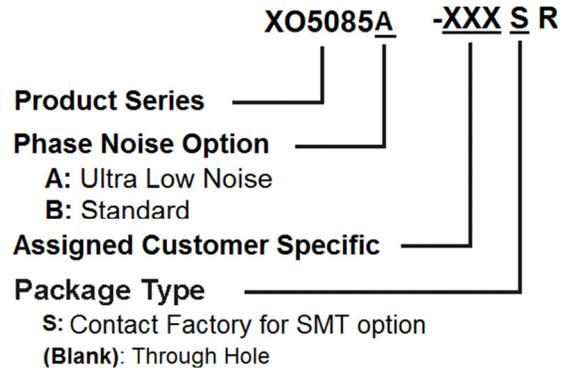
Features:

- Excellent phase noise performance
- RoHS Compliant

Applications:

- Microwave Radios
- Base Stations
- Test and Measurement Equipment
- Reference timing circuits

Ordering Information



Electrical Specifications:

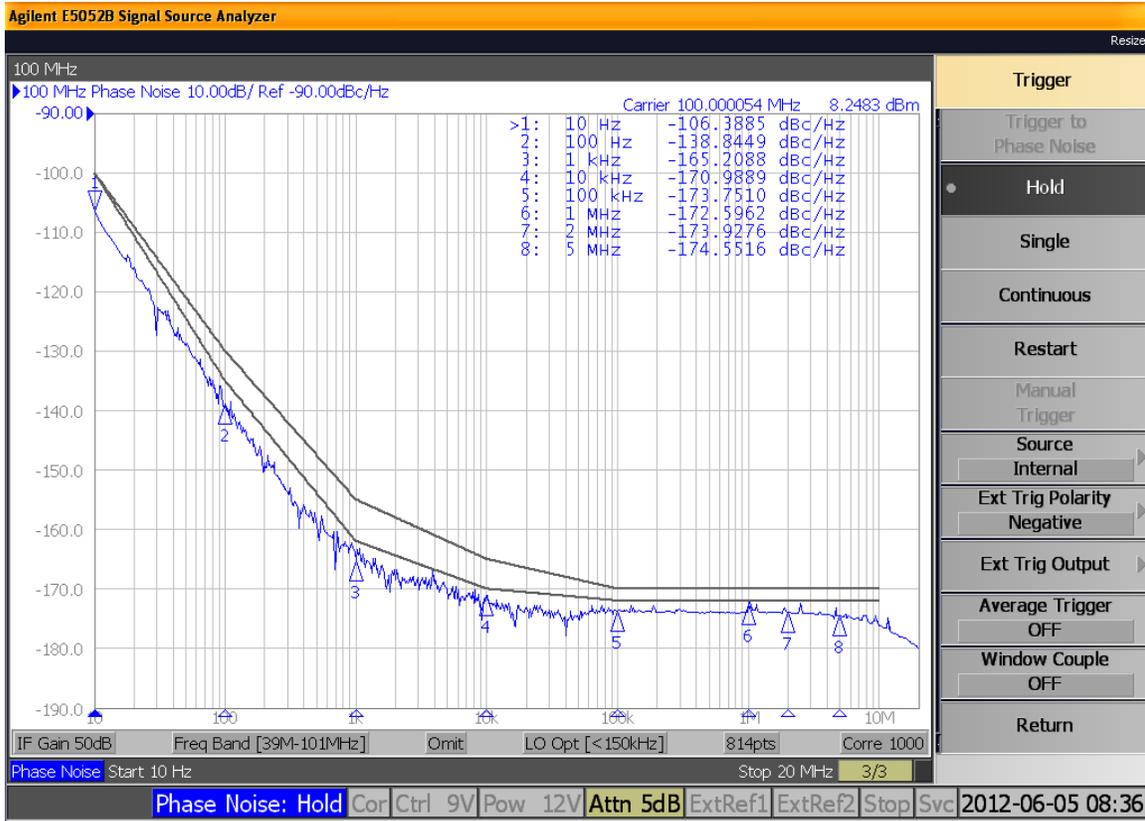
Parameter	Symbol	Min.	Typ.	Max.	Units	Conditions	
Frequency	F		100		MHz		
Frequency Stabilities							
Operating Temperature		0		+80	°C	Contact factory for other temperature range options.	
Storage Temperature		-55		+85	°C		
vs Temperature	$\Delta F_T/F$	-100		100	ppb	Over the operating temperature range	
vs. Supply Voltage	$\Delta F_{VDD}/F$	-30		+30	ppb	±5% change in voltage	
Aging 10 Years		-1		+1	ppm	After 30-days Power On	
Short Term Stability: ADEV			1×10^{-10}			Tau = 0.1 to 1.0 sec	
RF Output							
Output Type						Sinewave	
Output Load Level	V_{OH}		50		Ω	±10%	
Tuning Voltage		0		10	V	Contact factory for other tuning range options.	
Tuning Range						Sufficient for 10-years aging adjustment	
Modulation Bandwidth		1			kHz	3dB	
Vref			+10		V _{DC}	≤ 0.5mA	
Harmonics				-25	dBc		
Spurious				-75	dBc		
Other Parameters							
SSB Phase Noise (under static conditions)				Option A	Option B	dBc/Hz	
				-100	-95		@ 10Hz Offset
				-132	-127		@ 100Hz Offset
				-162	-155		@ 1kHz Offset
				-170	-163		@ 10kHz Offset
			-170	-165	@ 100kHz Offset		
G-sensitivity			1.5	3.0	ppb/g		
Warm-up Time				3	Minutes	@ 25°C, relative to 2-hrs after turn-on following 24-hrs off. To within ±0.1ppm of final frequency.	
Supply Voltage & Power Consumption							
Supply Voltage	V _{DD}	11.4	12	12.6	V _{DC}	Contact factory for other supply voltage options.	
Power Consumption				1.5	Watts	Steady state @ 25°C in still air	
				3.6	Watts	@ warm-up	

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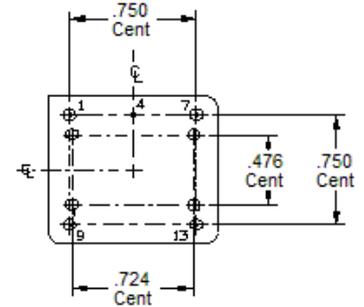
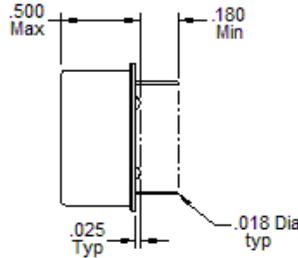
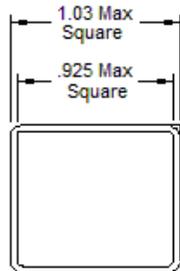


Phase Noise Plot:



Mechanical Layout & Pin Information:

- Pin Assignments**
- Pin 1: RF Output
 - Pin 4: Case Ground
 - Pin 7: VTune
 - Pin 13: VRef
 - Pin 19: Supply Voltage



** Please check website for environmental conditions and solder reflow profile.

Data Sheet Revision Table:

Date	Rev.	Author	Details of Revision
07-30-12	0	MM	Original Draft.