

Phase Noise Results

Phase noise measurements were performed on an Agilent E5052 SSA using an evaluation board with AC coupled output. The E5052 SSA has a phase noise to jitter integration calculation feature and devices were characterized in several frequency bands. Please contact Vectron for other offset integration bands.

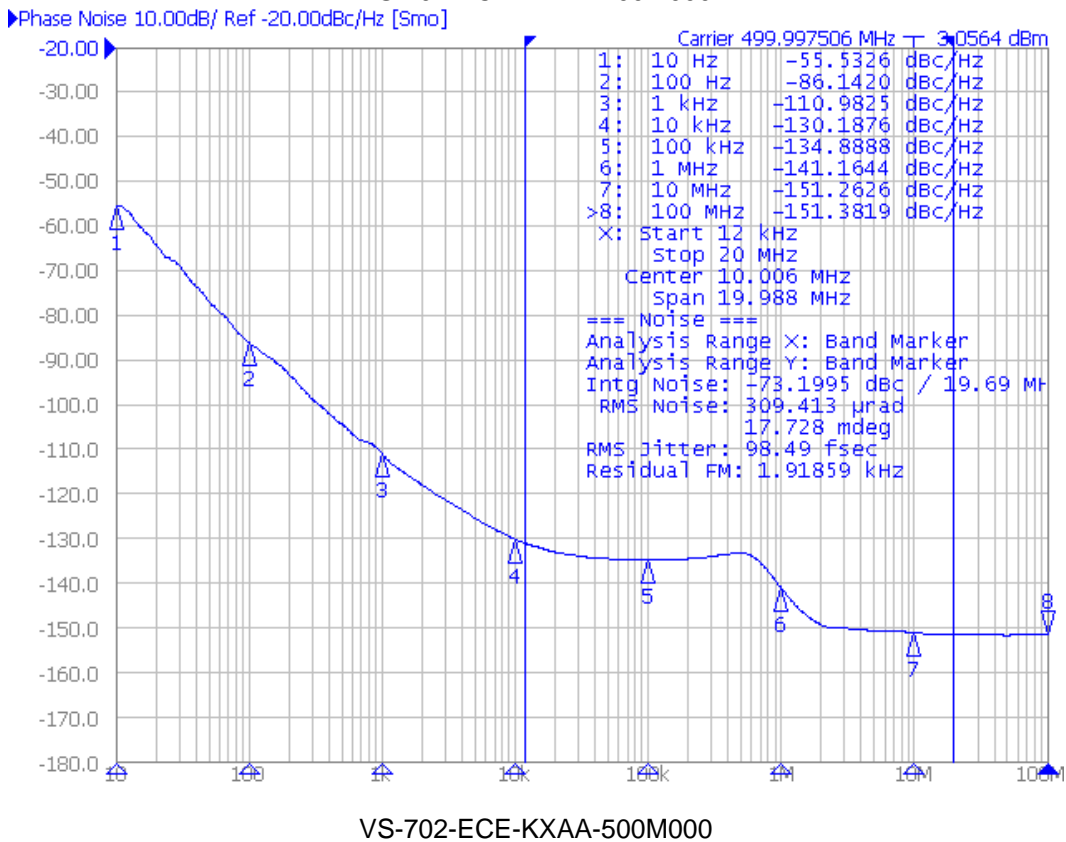
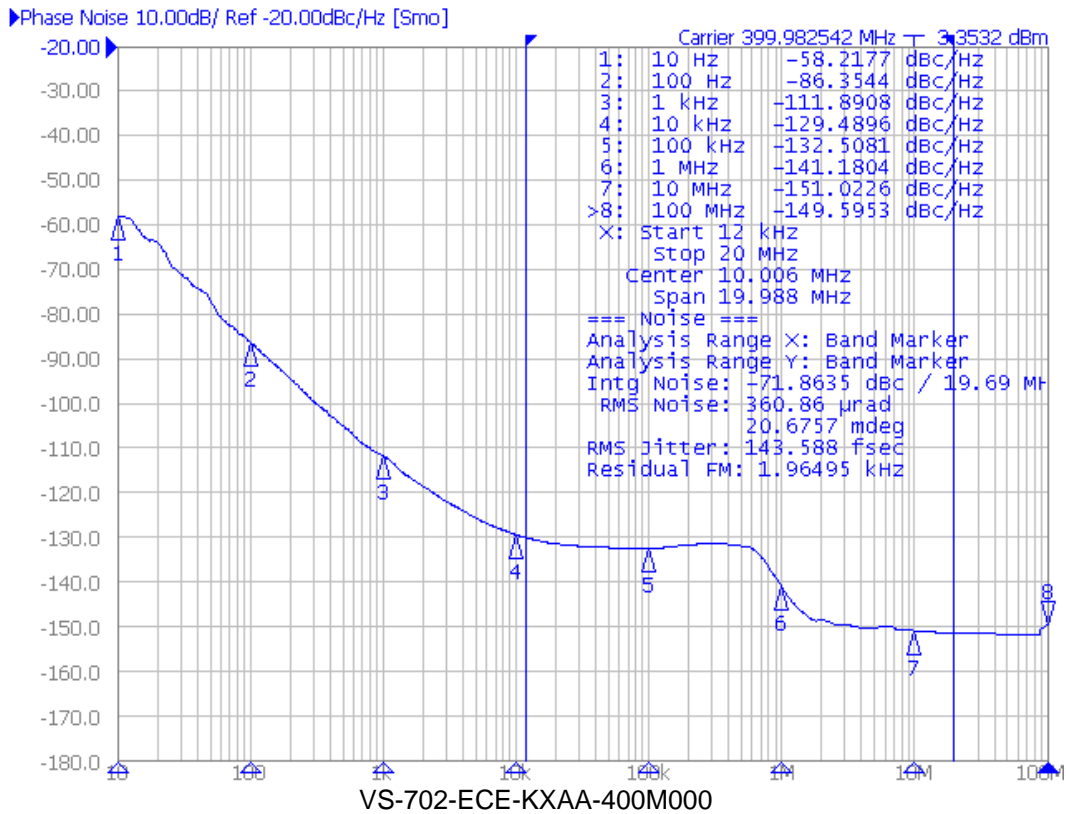


Contact Application Engineering for any phase noise/jitter data on frequencies not listed.

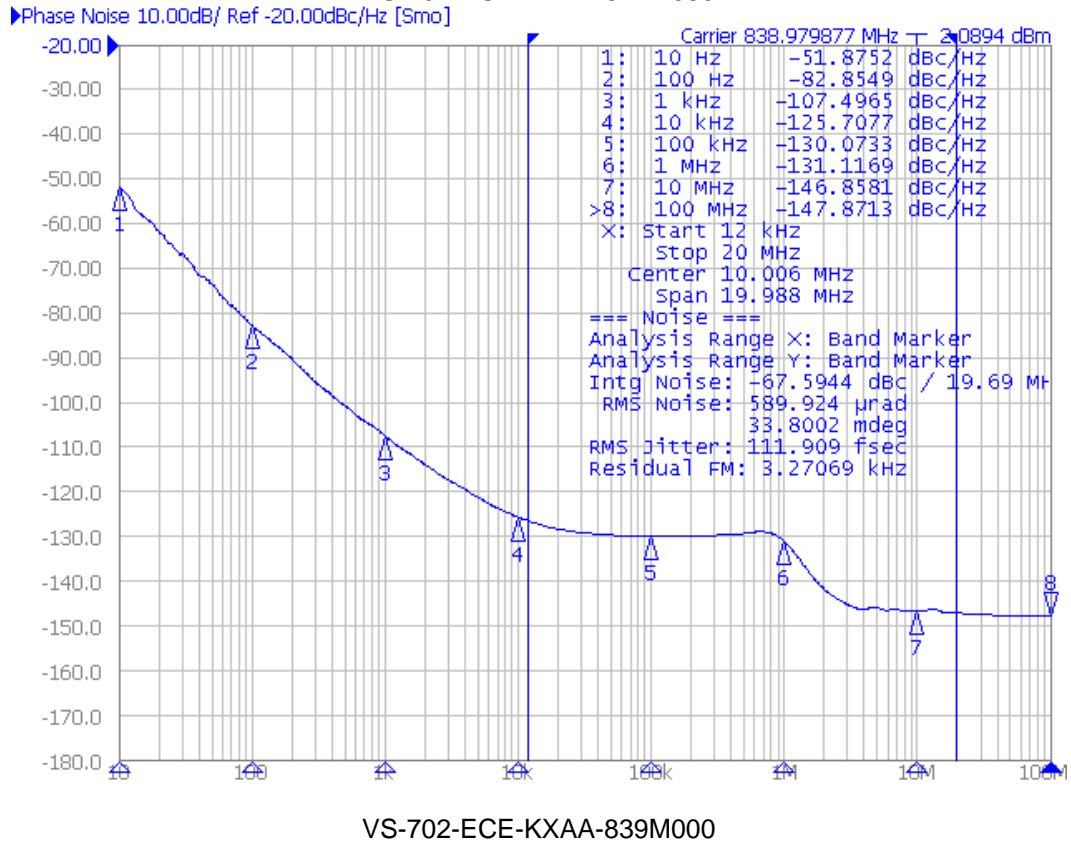
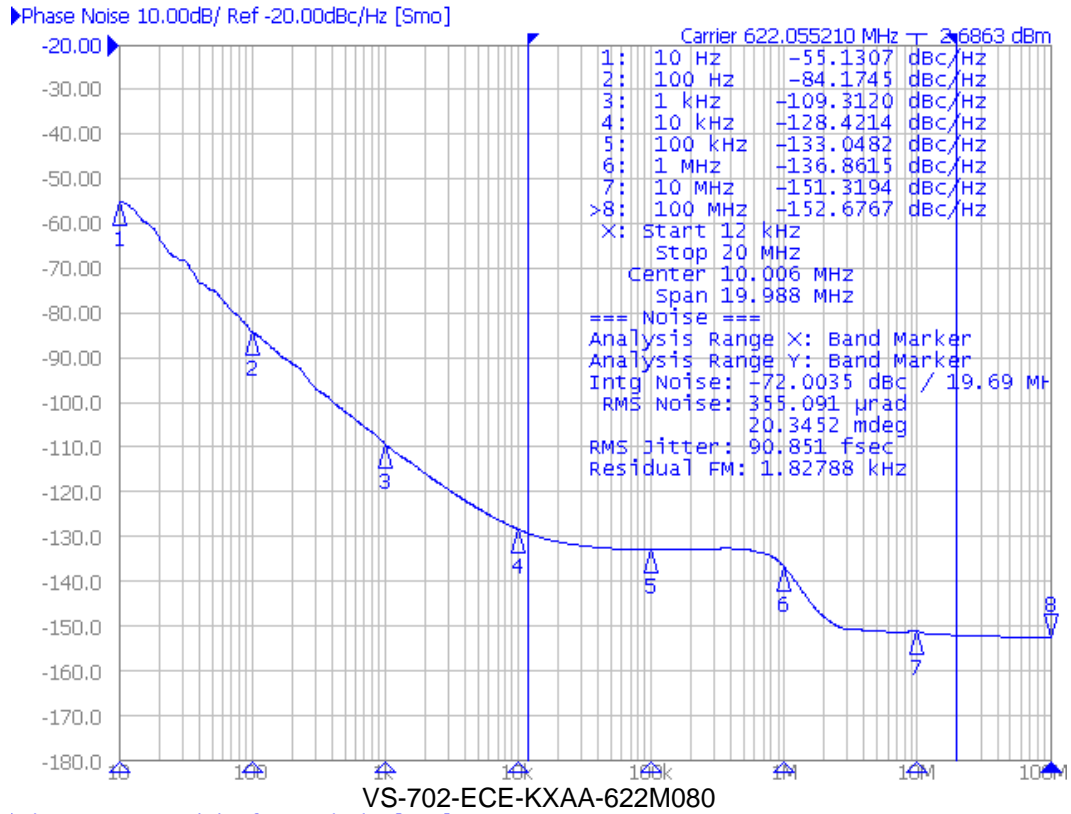
Output (MHz)	Phase Noise								Integrated Jitter	
	10 (Hz)	100 (Hz)	1 (KHz)	10 (KHz)	100 (KHz)	1 (MHz)	10 (MHz)	100 (MHz)	OC-12 12 KHz - 20 MHz (fs)	OC-48 50 KHz - 80 MHz (fs)
400.0000	-58	-86	-112	-129	-132	-141	-151	-149	144	162
500.0000	-55	-86	-110	-130	-134	-141	-151	-151	98	140
622.0800	-55	-84	-109	-128	-133	-136	-151	-152	91	106
839.0000	-52	-82	-107	-125	-130	-131	-147	-149	107	132
1000.0000	-51	-82	-107	-126	-131	-131	-146	-147	95	125

Table of typical phase noise and integrated jitter for the VS-702 series of oscillators

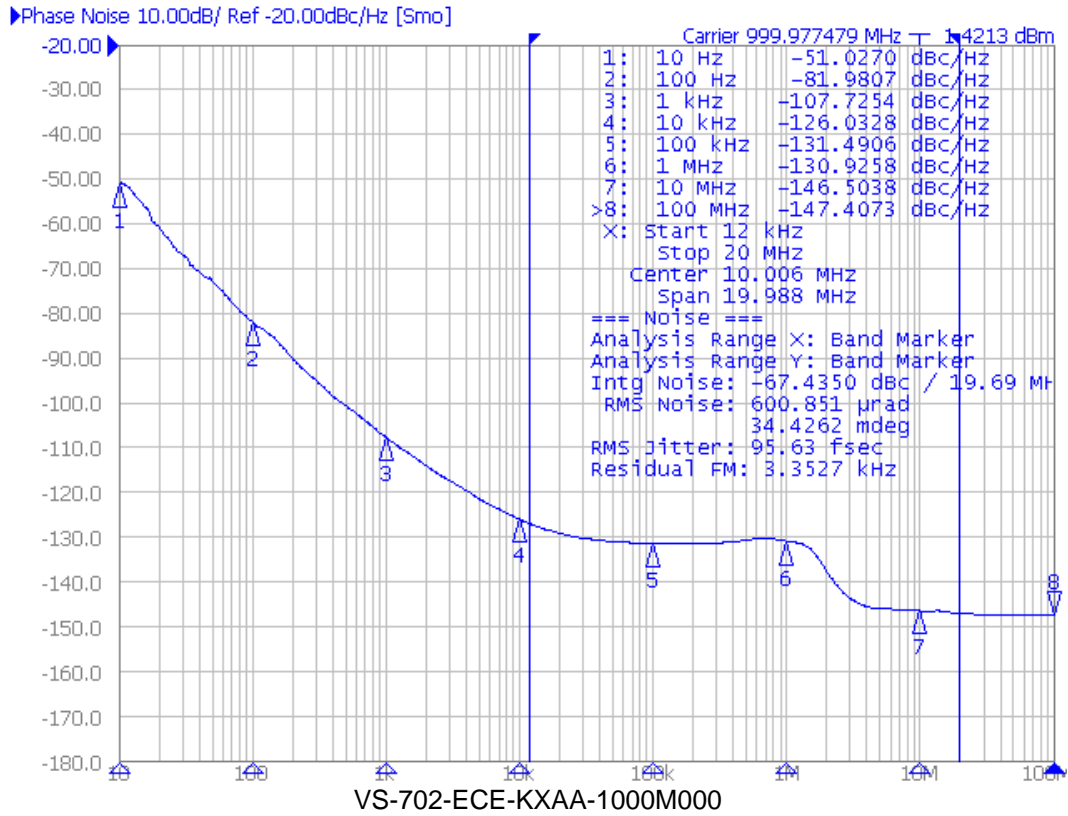
Typical Phase Noise for the VS-702 Series



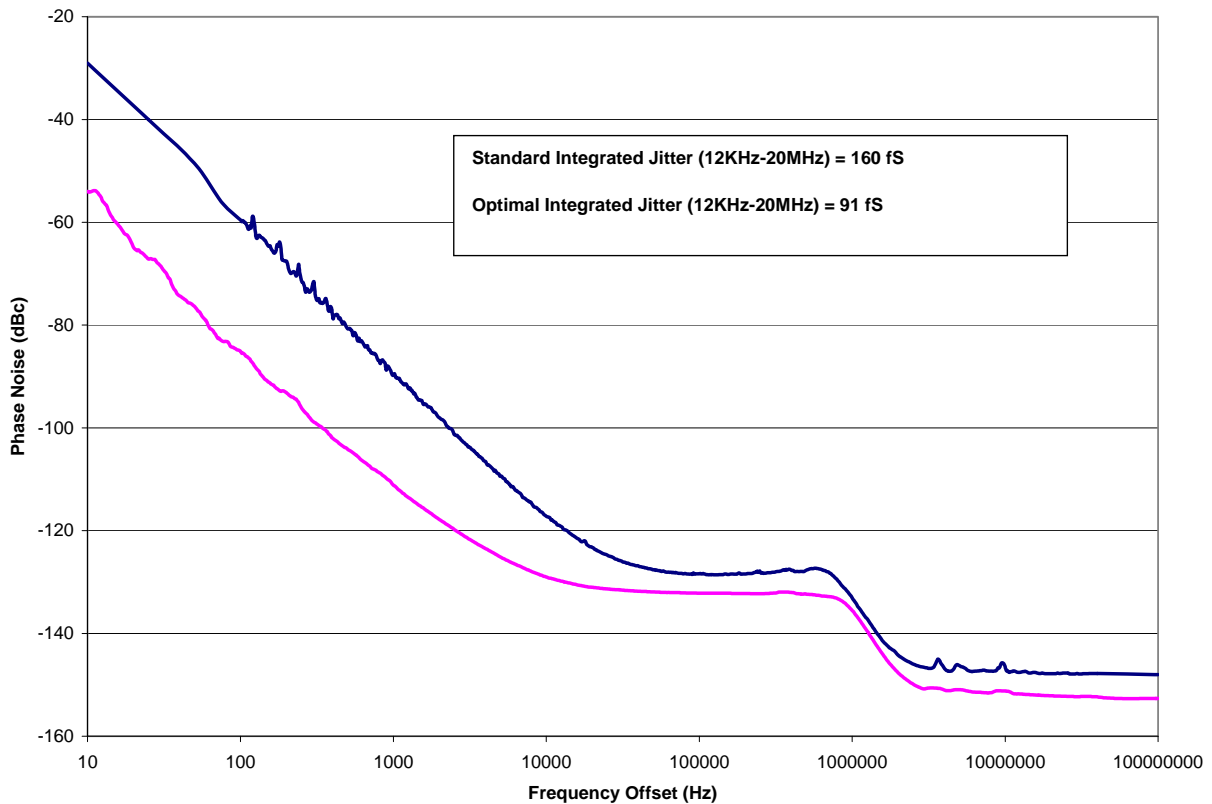
Typical Phase Noise for the VS-702 Series



Typical Phase Noise for the VS-702 Series



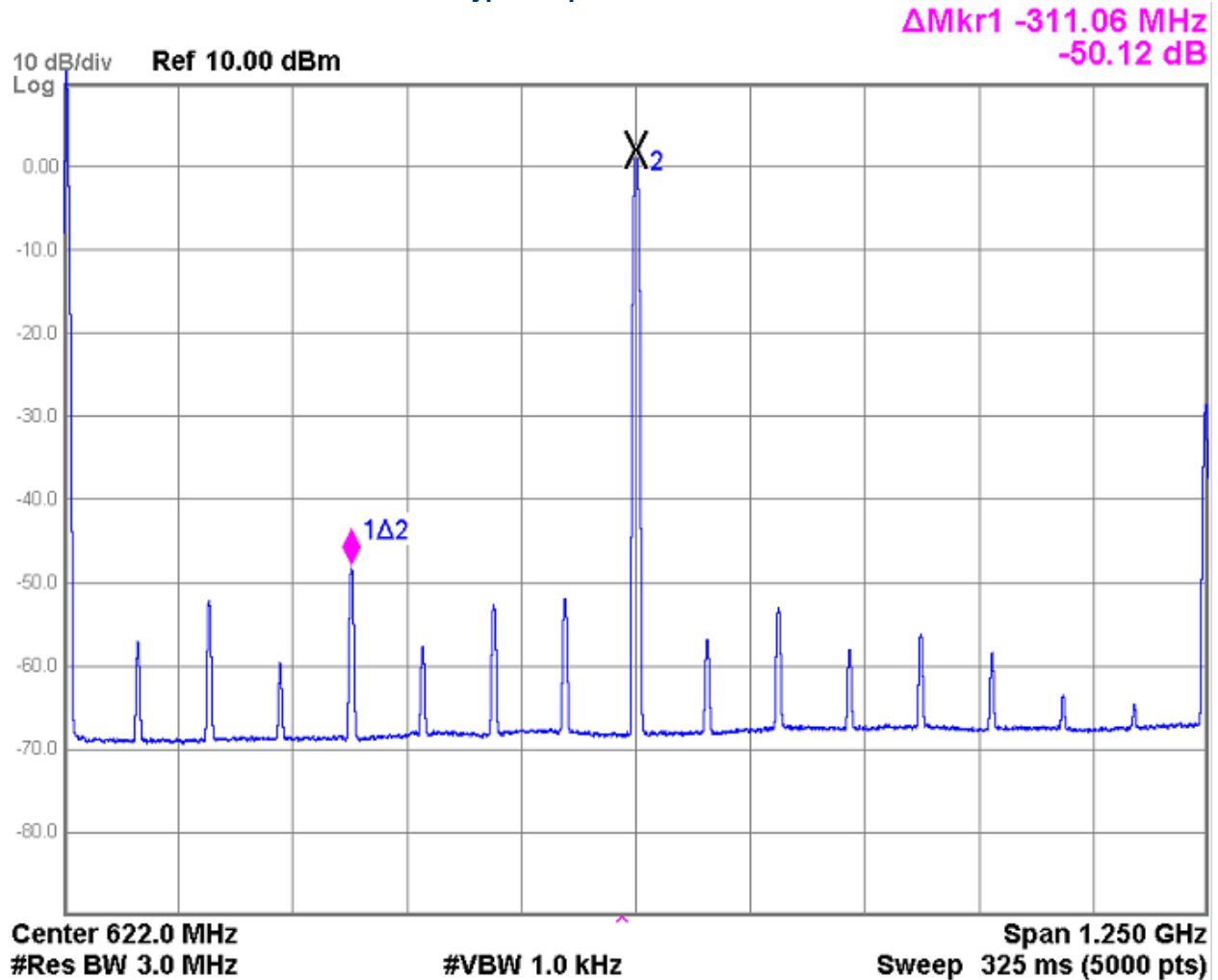
Ordering Options



VS-702-ECE-KXAA-622M080 vs VS-702-ECE-KXAN-622M080

Typical Phase Noise for the VS-702 Series

Typical Spurious Content



9x14 mm FR4 based option available to reduce sub-harmonic spurs by 10-15 dBc.

Contact Application Engineering for any phase noise/jitter data on frequencies not listed.

For Additional Information Please Contact:



USA: Vectron International • 267 Lowell Road, Hudson, NH 03051
• Tel: 1-88-VECTRON-1 • Fax: 1-888-FAX-VECTRON
EUROPE: Landstrasse, D-74924, Neckarbischofsheim, Germany •
Tel: 49 (0) 7268 8010 • Fax: 49 (0) 7268 801281
ASIA: Vectron Asia Pacific Sales 1F~2F, No.8 Workshop No.308 Fenju Rd.,
WaiGaoQiao Free Trade Zone, Pudong New Area Shanghai, China 200131
•Tel: 8621 50480777 • Fax: 8621 50481881

Vectron International reserves the right to make changes to the product(s) and/or information contained herein without notice. No liability is assumed as a result of their use or application. No rights under any patent accompany the sale of any such product(s) or information.

September 2009.