

SVP-53, SPP-53, SLP-53 5x3.2mm 6-Pad Ceramic Package

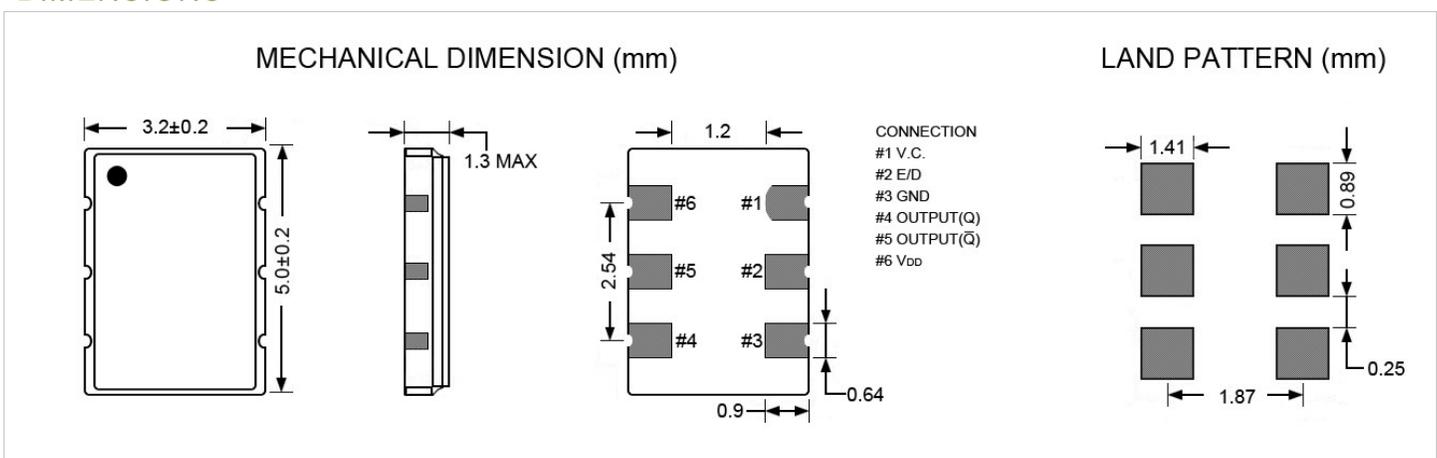

- Programmable Die with custom Sunny Crystal
- Wafers cut and packaged by Sunny
- 2.5/3.3 supply voltage
- CMOS, LVPECL, LVDS
- Stability to ± 25 ppm
- Enable/Disable function available
- Voltage Controlled
- Available on tape and reel
- Pb-free and RoHS compliance

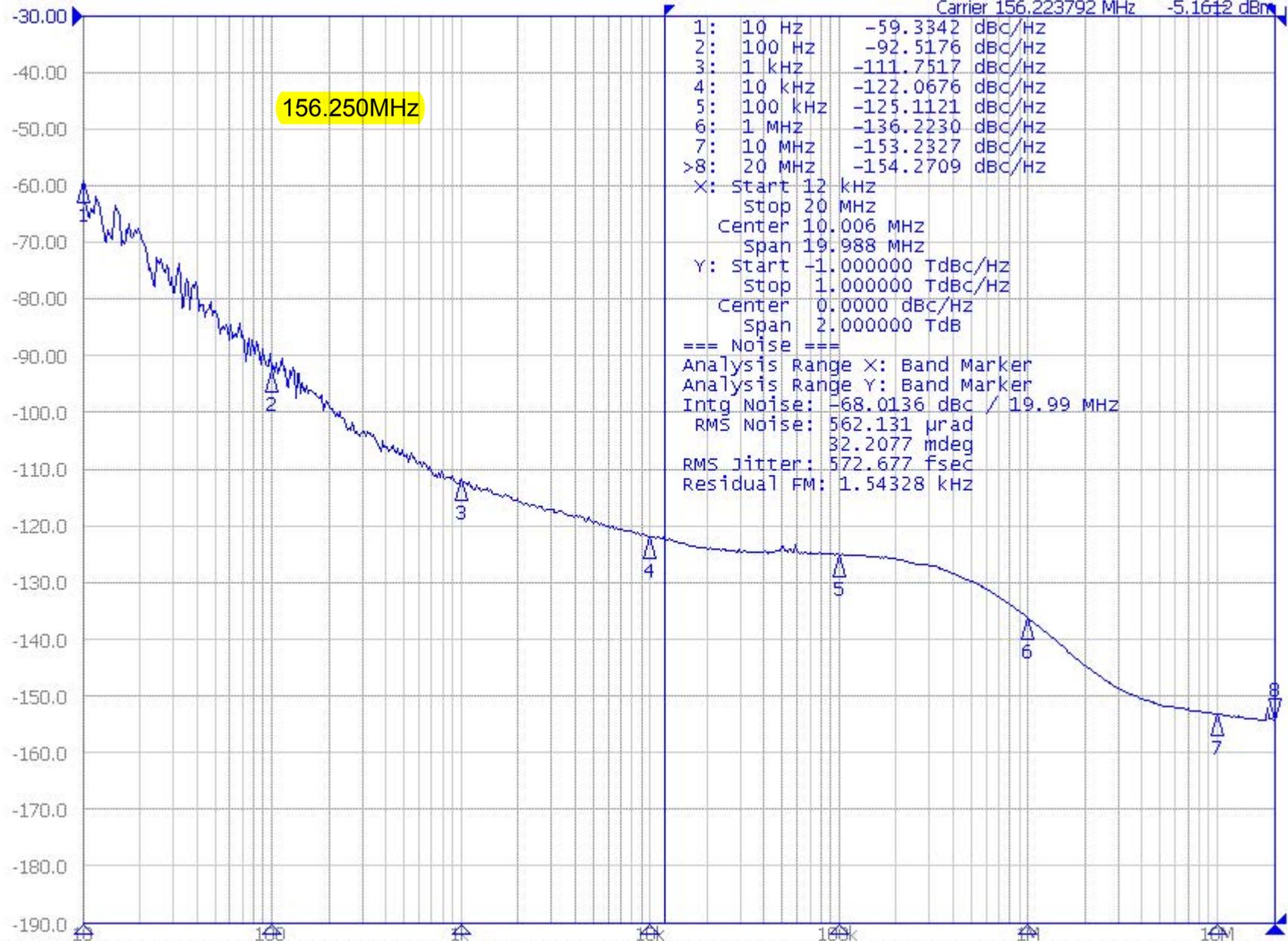
SPECIFICATION

Waveform	CMOS	LVPECL	LVDS
Frequency	10MHz to 250MHz	10MHz to 1500MHz	10MHz to 1500MHz
Mode of Oscillation	Fund		
Operating Temperature Range	0 to 70°C		
Storage Temperature Range	-40 to 125°C		
Supply Voltage	2.5V, 3.3V		
Frequency Stability vs. Temp. Range	± 50 ppm		
Input Current	40mA	70mA	30mA
Rise/Fall Time	4ns	600ps	600ps
Phase Jitter	1.0ps typical		
Duty Cycle	45/55		
Control voltage / Frequency Deviation	1.25 \pm 1.25V, 1.65 \pm 1.65V / ± 100 ppm		
Linearity	10%		
Start-up time	10ms max		
Enable/Disable Input Voltage	$V_{IH} \geq 0.7V_{DD}$ or No Connection, $V_{IL} \leq 0.3V_{DD}$ or Ground		
Output Load	15pF	50 Ω	100 Ω
Aging/Year	± 3.0 ppm max		

PART NUMBERING GUIDE Ex: SVP10 2 20 A 2 10.000MHz

Model/Waveform	Supply Voltage	Frequency Stability	Oper-Temp Range	E/D Pin	Frequency
SVP53: CMOS	2:2.5V	25: ± 25 ppm	A:-40 to +85°C	2:Pin2	XX.XXX
SPP53: VLPECL	3:3.3V	50: ± 50 ppm	B:-20 to +70°C	Blank:No Connect	
SLP53: LVDS		10: ± 100 ppm	Blank:0 to +70°C		

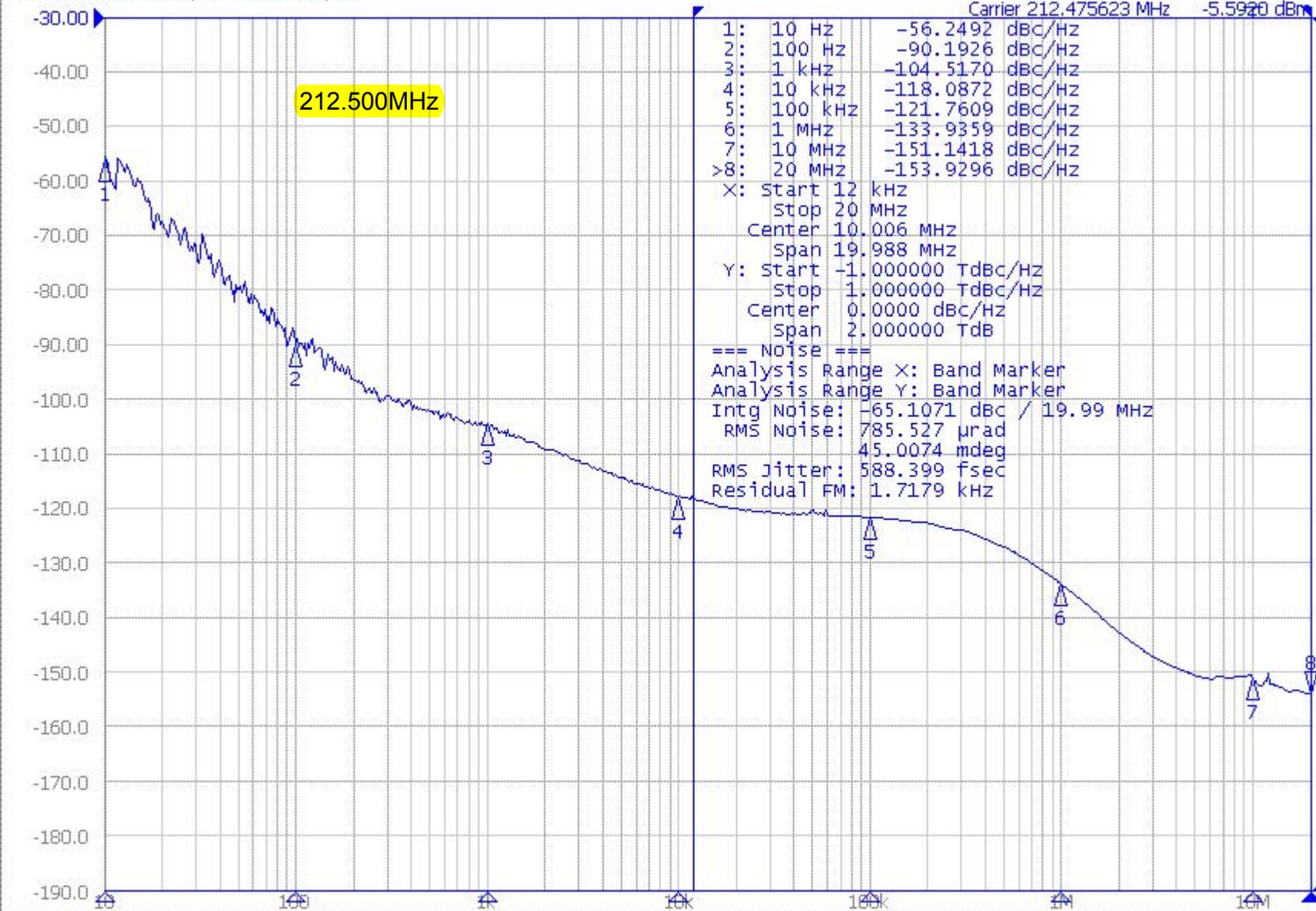
DIMENSIONS


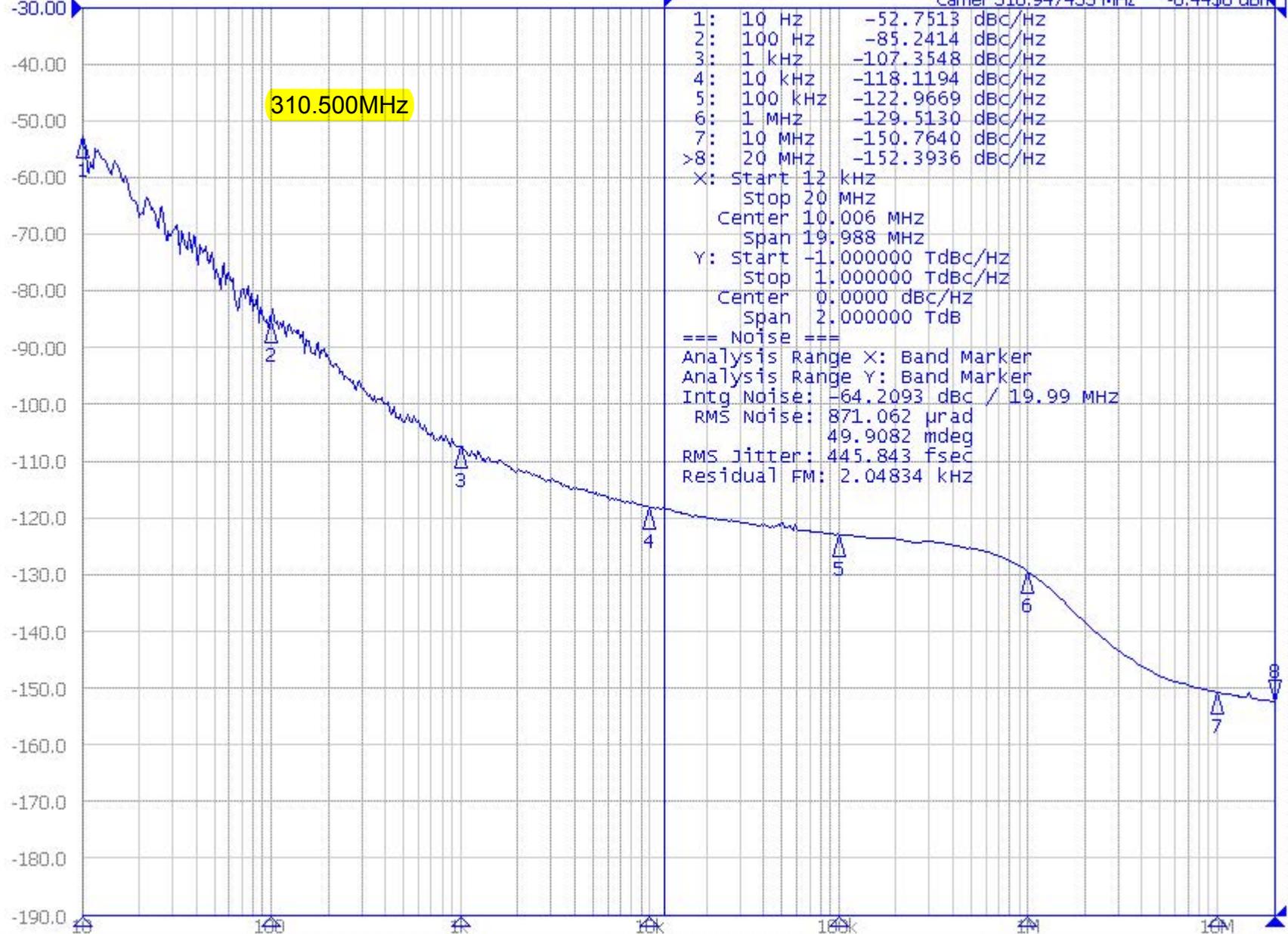


212.500MHz

1:	10 Hz	-56.2492 dBc/Hz
2:	100 Hz	-90.1926 dBc/Hz
3:	1 kHz	-104.5170 dBc/Hz
4:	10 kHz	-118.0872 dBc/Hz
5:	100 kHz	-121.7609 dBc/Hz
6:	1 MHz	-133.9359 dBc/Hz
7:	10 MHz	-151.1418 dBc/Hz
>8:	20 MHz	-153.9296 dBc/Hz

X: Start 12 kHz
Stop 20 MHz
Center 10.006 MHz
Span 19.988 MHz
Y: Start -1.000000 TdBc/Hz
Stop 1.000000 TdBc/Hz
Center 0.0000 dBc/Hz
Span 2.000000 TdB
=== Noise ===
Analysis Range X: Band Marker
Analysis Range Y: Band Marker
Intg Noise: -65.1071 dBc / 19.99 MHz
RMS Noise: 785.527 μ rad
45.0074 mdeg
RMS Jitter: 588.399 fsec
Residual FM: 1.7179 kHz





Phase Noise 10.00dB/ Ref -10.00dBc/Hz

Carrier 622.017514 MHz -11.6490 dBm



622.08MHz

1:	10 Hz	-34.1021	dBc/Hz
2:	100 Hz	-64.4708	dBc/Hz
3:	1 kHz	-84.8359	dBc/Hz
4:	10 kHz	-107.0496	dBc/Hz
5:	100 kHz	-113.3143	dBc/Hz
6:	1 MHz	-120.3419	dBc/Hz
7:	10 MHz	-143.0101	dBc/Hz
>8:	20 MHz	-144.4503	dBc/Hz

X: Start 12 kHz
Stop 20 MHz
Center 10.006 MHz
Span 19.988 MHz
Y: Start -1.000000 TdBc/Hz
Stop 1.000000 TdBc/Hz
Center 0.0000 dBc/Hz
Span 2.000000 TdB

=== Noise ===
Analysis Range X: Band Marker
Analysis Range Y: Band Marker
Intg Noise: -54.7650 dBc / 19.99 MHz
RMS Noise: 2.58384 mrad
148.043 mdeg
RMS Jitter: 661.123 fsec
Residual FM: 5.23555 kHz