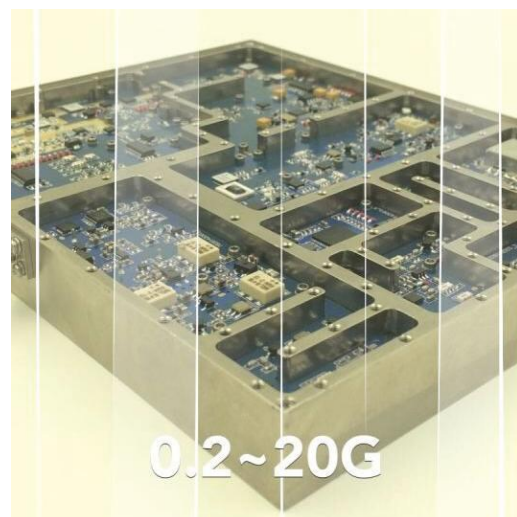


FREQUENCY SYNTHESIZER

Ultra Low Phase Noise Frequency Synthesizer

Models

SNFS-U-0110-0
SNFS-U-0220-0



Features:

- 0.1 to 10 GHz and 0.2 to 20 GHz Coverage
- Ultra low Phase Noise: -106 dBc/Hz@1KHz at 20 GHz
- Step:0.001 Hz
- 200 μ S Frequency Switching
- Spurious:-75dBc(Max)

FREQUENCY SYNTHESIZER

Frequency Synthesizer

Frequency Characteristics

Parameter	SNFS-U-0110-0 / SNFS-U-0220-0
Frequency Range	100MHz~10GHz / 200MHz~20GHz
Step	100Hz(Typical),0.001Hz(Min)
Frequency Stability	1×10E7(Internal)
Switching time	≤200uS

Power Characteristics

Parameter	SNFS-U-0110-0 / SNFS-U-0220-0
Output	≥+13dBm@0.1~10G , ≥+10dBm@10~20G
Flatness	±2dB

Spectrum Characteristics

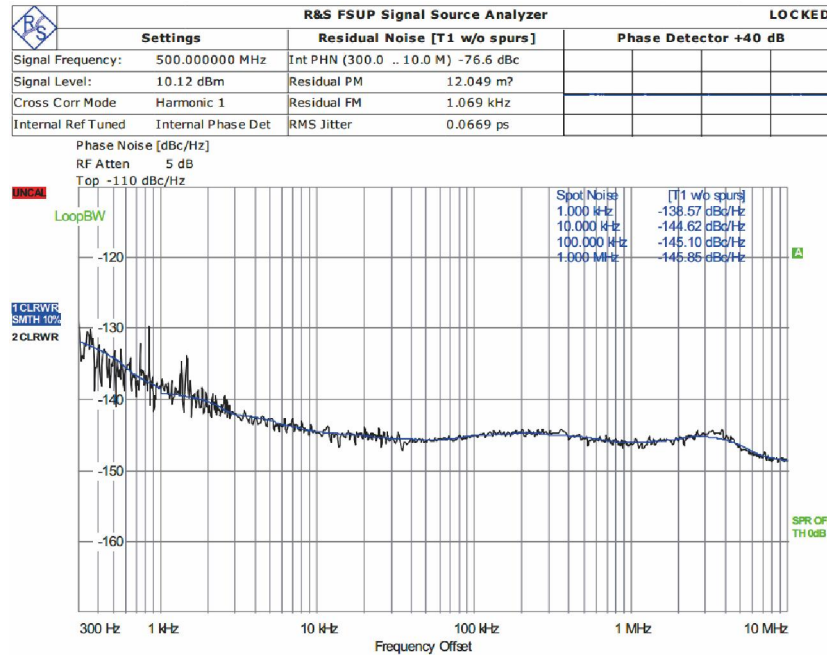
Parameter	SNFS-U-0110-0 / SNFS-U-0220-0
Spurious	Typical: -80dBc (-75dBc [max])
Harmonic	Typical : -20dBc (-10dBc [max])

Phase Noise Characteristics

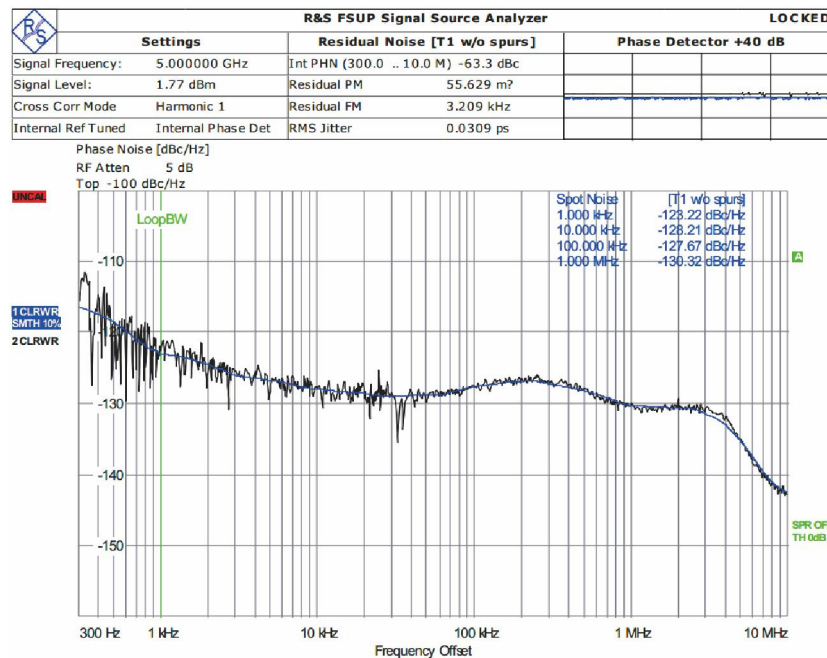
Phase Noise	dBc/Hz@				
	0.5GHz	1GHz	5GHz	10GHz	20GHz
	typ max]	typ max]	typ max]	typ max]	typ max]
100Hz	-109[-103]	-103[-97]	-89[-83]	-83[-77]	-77[-71]
1KHz	-138[-135]	-135[-126]	-123[-120]	-116[-113]	-109[-106]
10KHz	-144[-139]	-138[-133]	-127[-122]	-121[-116]	-115[-111]
100KHz	-145[-140]	-138[-133]	-127[-122]	-121[-116]	-115[-111]
1MHz	-145[-140]	-140[-135]	-130[-125]	-124[-121]	-118[-116]
System Noise Floor:-155					

FREQUENCY SYNTHESIZER

Phase noise



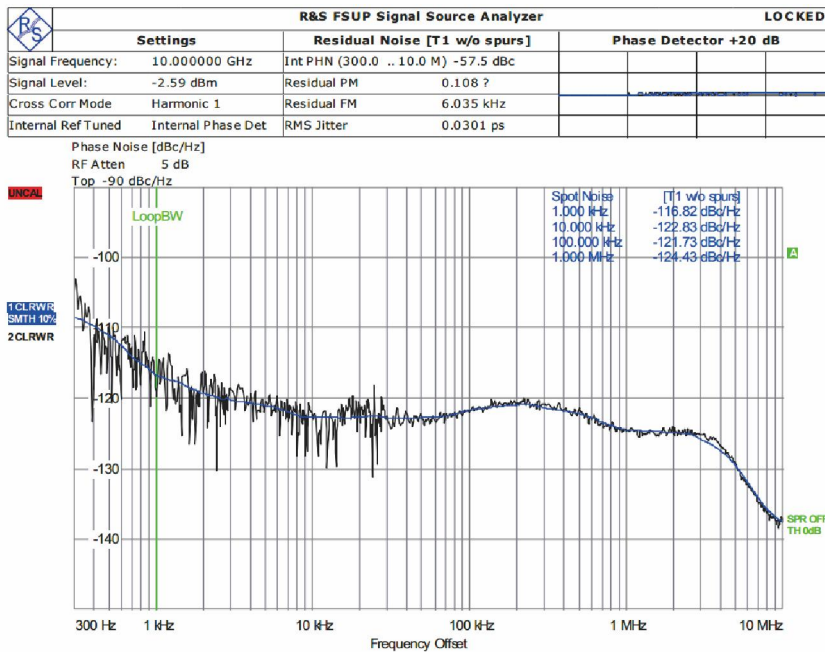
Center Frequency=500MHz



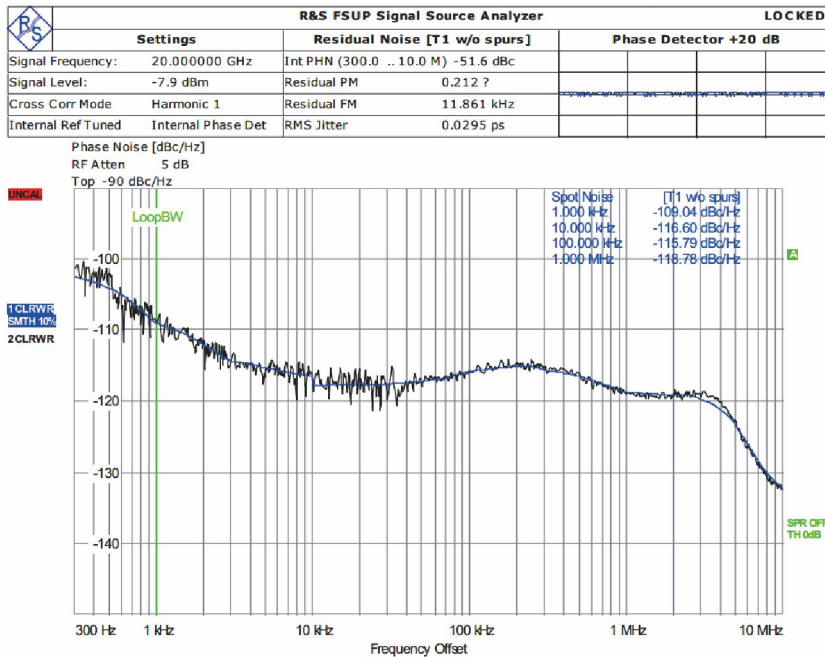
Center Frequency=5000MHz

FREQUENCY SYNTHESIZER

Frequency Synthesizer



Center Frequency=10GHz



Center Frequency=20GHz

FREQUENCY SYNTHESIZER

Power Consumption

Supply Voltage	Current (SMFS-U-0110-0/SMFS-U-0220-0)
+12V	2000mA [MAX]

Adaptability and Reliability

Operating Temperature	-55~+85℃
Storage Temperature	-60~+100℃
Special environment	Accept custom
Application Level	Military、Industry、Commerce

CONNECTOR

RF Connectors	SSMA-K / SMA-K
Power & Control	cPCI、PXIe Hybrid slots/J30J
Programming	SPI、RS422、RS232

Advantage

Frequency extension	Downconversion Option , Extend down to 9KHz
PXI Type	modular open system approach

FREQUENCY SYNTHESIZER

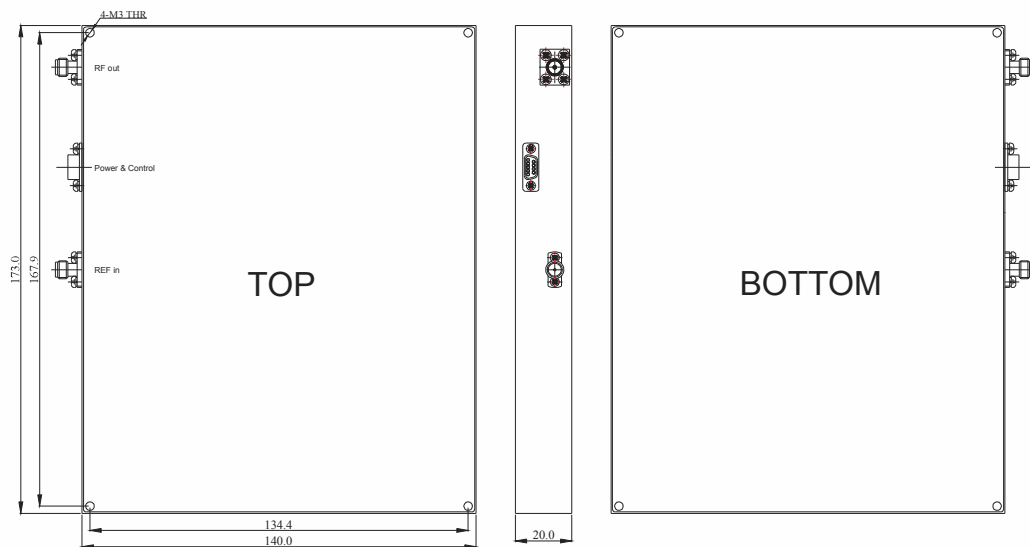
Physical Characteristics

Dimensions

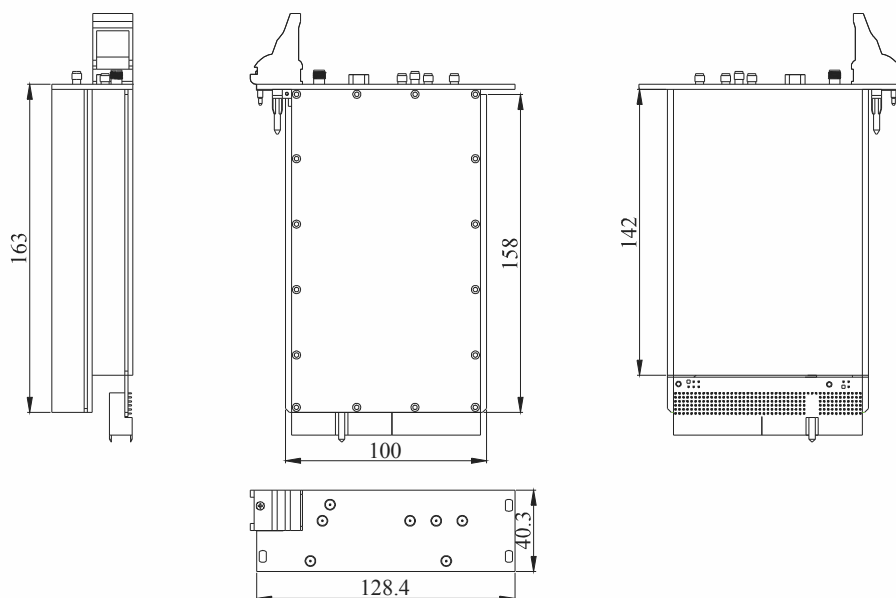
PXI 2 modules/173×140×20

Product surface

Electroless Nickel



General dimension



PXI Type

Frequency Synthesizer

FREQUENCY SYNTHESIZER

Ordering Information

Example : SMFS-U-0110-0

Explanation : SMFS Product Series

U :Ultra low phase noise

01: the start frequency is 0.1 Unit : GHz

10: the stop frequency is 10 unit: GHz

0: Industrial (1 :Commercial , 2 :Military)

Customer settings

Frequency range : _____ (GHz)

Output Power : _____ (dBm)

Spurious : _____ (dBc)

Harmonics : _____ (dBc)

Phase noise : dBc/Hz@

1KHz _____

10KHz _____

100KHz _____

1MHz _____

Power supply : _____ mA/ _____ V; _____ mA/ _____ V;

Operating temperature : _____ °C

外形尺寸 : _____ mm× _____ mm× _____ mm

Other requirements _____
