

Features:

- ◆ Frequency Range: 200MHz~40GHz
- ◆ size: 146*95*21mm
- ◆ Spur: -70dBc
- ◆ Low Phase Noise (10GHz) : -107dBc/Hz@1kHz.



Electrical properties

Ref input frequency	10MHz
Ref input power	7±3dBm
Frequency stability	≤2E-8
Frequency accuracy	≤2E-8
Phase Noise	≤-155dBc/Hz@1kHz
Input impedance	50 Ω

Frequency output

RF Output Range	200~20000MHz (Standard)
RF Output Range	200~40000MHz(0240 Options)
Frequency stability (Internal reference)	±2E-7
Frequency accuracy (External reference)	(Same as reference)
Resolution	0.1Hz (200MHz~20GHz)
Resolution	0.2Hz (20GHz~40GHz)
Switching speed	200uS
Spur	≤-70dBc(TYP)/ ≤-65dBc(MAX) (0dBm Test)
Spur	≤-65dBc(TYP)/ ≤-60dBc(MAX)(20~40GHz) (0dBm Test)
Harmonics	≤-20
Output power	-40~10dBm
Power step	0.1dBm
Power stability	±1dB(-0~+10dBm)
Power stability	±2.0dB(-40~0dBm)

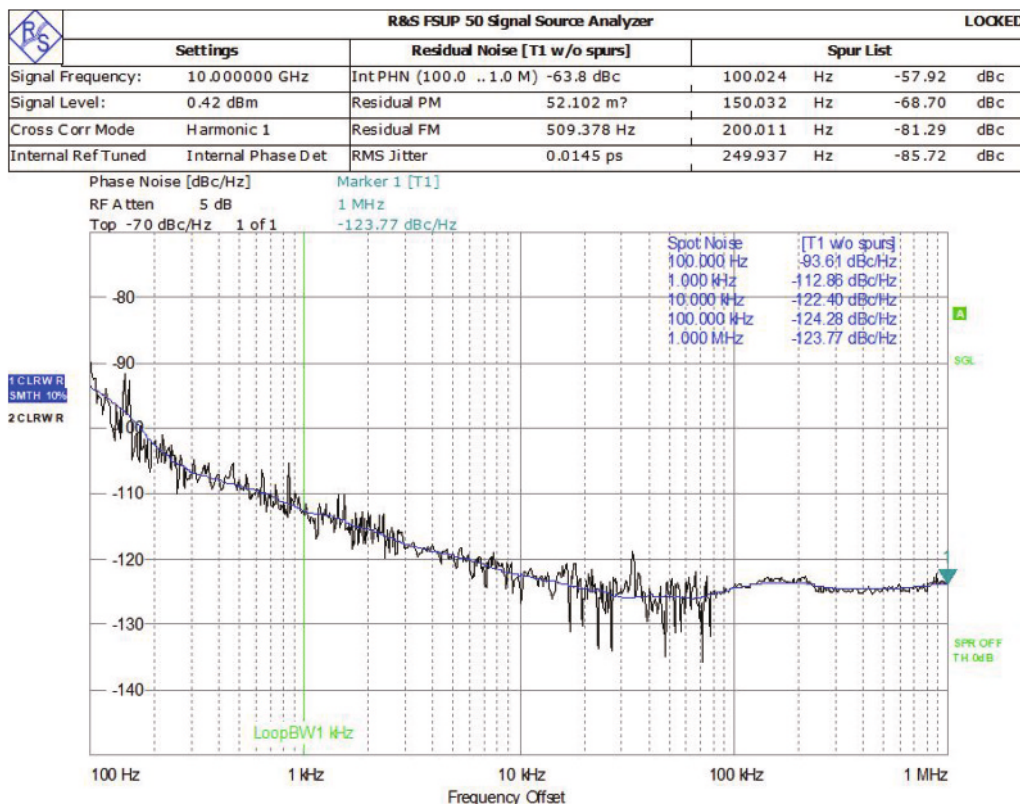
Pulse Modulation

Modulation depth	-60dBc
Pulse form	Internal/External pulse
Pulse width	100ns~10ms
Rising edge/falling edge	50ns/100ns

Phase Noise (dBc/Hz)

LFS11 Phase noise (Standard module)

Frequency	1GHz	5GHz	10GHz	20GHz	40GHz
100Hz	-105	-91	-85	-79	-73
1kHz	-125	-113	-107	-101	-95
10kHz	-135	-122	-116	-110	-104
100kHz	-135	-122	-116	-110	-104
1MHz	-135	-122	-116	-110	-104



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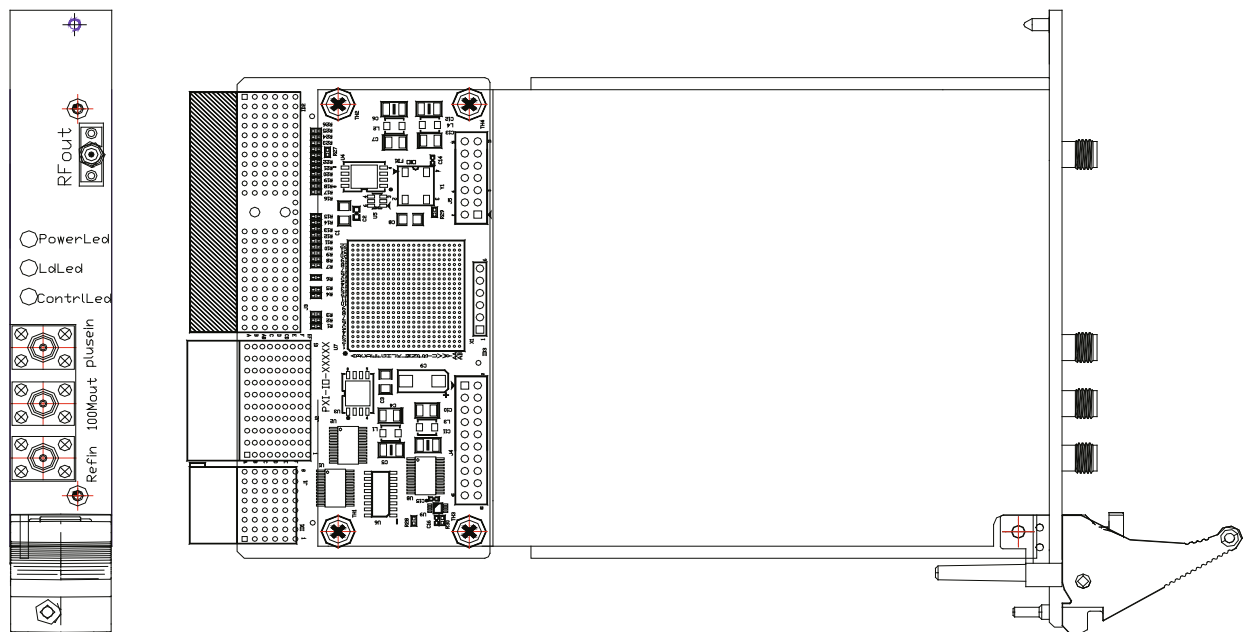
Input Voltage	+12±0.5v
Max. Voltage	+15v
Current	1.6A (Warm-up) /1.2A(Stable)
	1.8A (Warm-up) /1.4A(Stable) (0240 Options)

Environmental

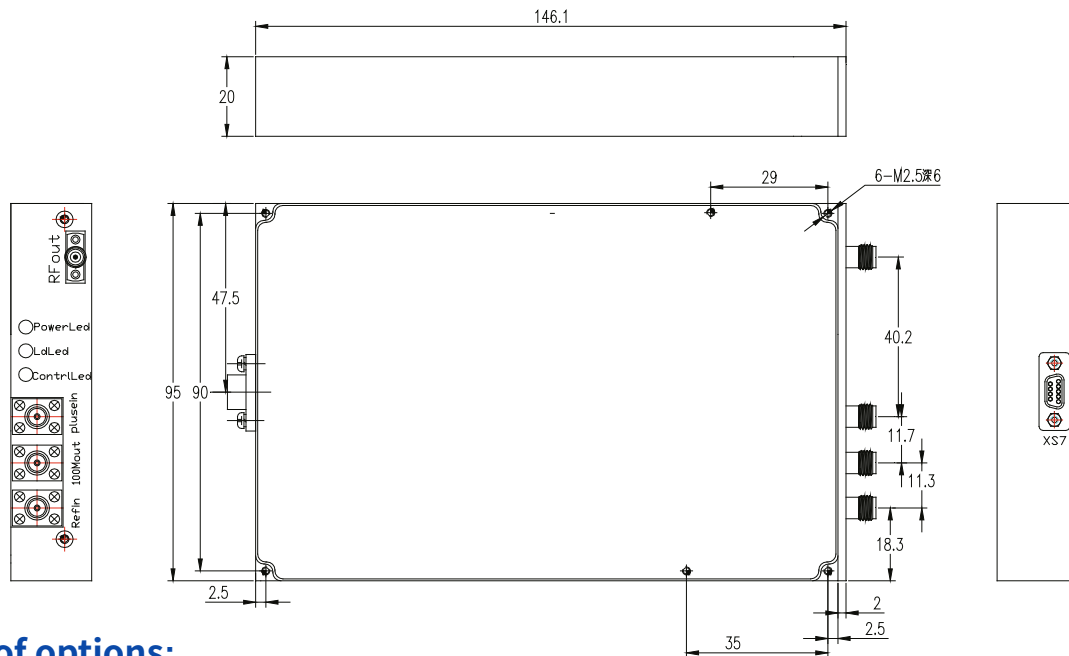
Operating Temperature	-40° to +70° C
Storage Temperature	-55° to +85° C
Dimensions	PXI (One slot) /146.1×95×20mm
Weight	≤180g

Installation Diagram

PXI Package



Module Package



List of options:

The product order number	
LFS11- 0220- M	Frequency output range: 200MHz~20GHz, the shape is a standard module package
LFS11- 0220L- M	Frequency output range: 200MHz~20GHz, standard module package, low phase noise option.
LFS11- 0220- P	Frequency output range: 200MHz~20GHz, the shape is a standard PXI package
LFS11- 0220L- P	Frequency output range: 200MHz~20GHz, form factor in standard PXI package, low phase noise option
LFS11- 0240- M	Frequency output range: 200 MHz~40GHz, the shape is a standard module package
LFS11- 0240L- M	Frequency output range: 200MHz~40GHz, standard module package, low phase noise option.
LFS11- 0240- P	Frequency output range: 200MHz~40GHz, standard PXI package
LFS11- 0240L- P	Frequency output range: 200MHz~40GHz, form factor in standard PXI package, low phase noise option

Deliverables:

No.	Attachments	Quantity	Remark
1	Factory inspection report	1	
2	Product Certificate	1	
3	Instruction manual for the product	1	Paper/electronic version