

## LFS11

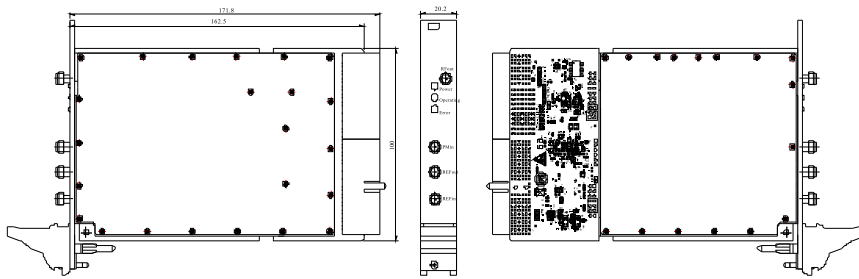
# Features

- Frequency Range 100MHz~20GHz
- Low Phase Noise
- Standard PXI structure and communication protocol

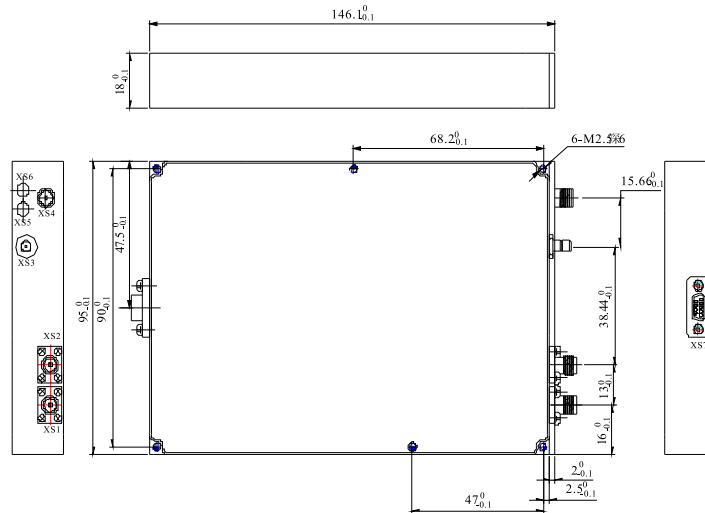


Frequency Range ( MHz )		100~10000&200~20000			
Frequency Resolution ( Hz )		0.001			
Frequency Switching Time ( uS )		≤100			
Power ( dBm )		-20~ +13			
Power Stability ( dB )		±2.5			
Frequency Stability		2×10 <sup>-7</sup> (Same as reference)			
Frequency Accuracy		2×10 <sup>-7</sup> (Same as reference)			
Non-Harmonic Spurious ( dBc )		≤-75/-70(typ (max.))			
Harmonics ( dBc )		≤-35 ( 200~12500MHz ) ≤-20 ( 12500~20000MHz )			
Phase Noise dBc/Hz	dBc/Hz@100Hz	@0.1GHz	-123/-119	@0.5GHz	-109/-105
	dBc/Hz@1kHz		-143/-139		-140/-136
	dBc/Hz@10kHz		-145/-141		-144/-139
	dBc/Hz@100kHz		-145/-141		-145/-140
	dBc/Hz@1MHz		-145/-141		-145/-140
Phase Noise dBc/Hz	dBc/Hz@100Hz	@1GHz	-103/-99	@5GHz	-89/-85
	dBc/Hz@1kHz		-130/-127		-116/-113
	dBc/Hz@10kHz		-135/-131		-127/-122
	dBc/Hz@100kHz		-135/-131		-127/-122
	dBc/Hz@1MHz		-138/-133		-130/-125
Phase Noise dBc/Hz	dBc/Hz@100Hz	@10GHz	-83/-77	@20GHz	-77/-71
	dBc/Hz@1kHz		-110/-107		-104/-101
	dBc/Hz@10kHz		-121/-116		-115/-110
	dBc/Hz@100kHz		-121/-116		-115/-110
	dBc/Hz@1MHz		-124/-121		-118/-115
Supply Voltage ( V/A )		+12/1.6 ( Warm-up ) +12/1.2 ( stable )			
Connector		RF : SMA-kFD Control : J1、 J2(standard PXI package) ; J30J-09(standard module package)			
Size (W x L x H)		≤146.1×95×18mm ( 3UPXI )			
Control Interface		SPI/PXI			
Temperature Range(operating) ( °C )		-40~ +70			
Temperature Range (non-operating) ( °C )		-55~ +85			
Pulse modulation					
Pulse depth		≥60dBc(Test power : +10dBm)			
pulse width		100ns~10ms			
Power Stability ( dB )		≤0.2dB			
Rise/Fall Time		≤30ns/50ns			

standard PXI package



standard module package



Connector ( LFS11-0110M/ LFS11-0220M )

1	+12V	2	+12V	3	GND
4	GND	5	NC	6	NC
7	CN	8	RX	9	TX

Ordering Information

LFS11-0110M	Frequency Rang : 100MHz~10GHz,The outline is standard module package
LFS11-0220M	Frequency Rang : 200MHz~20GHz,The outline is standard module package
LFS11-0110-P	Frequency Rang : 100MHz~10GHz,The outline is standard PXI package
LFS11-0220-P	Frequency Rang : 200MHz~20GHz,The outline is standard PXI package