

Broadband Frequency Synthesizer

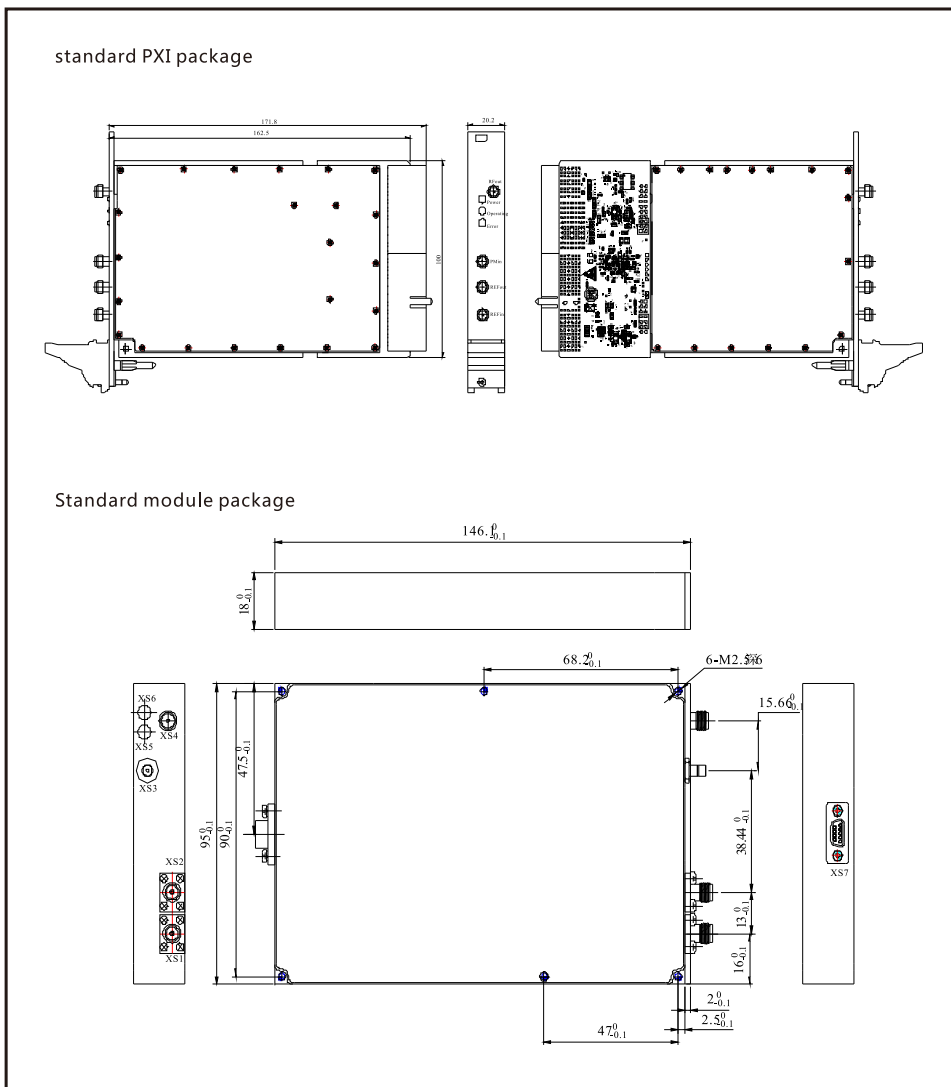
GFS11

Features

- Broadband low spurious frequency synthesizer
- Standard PXI structure and communication protocol



Frequency Range (MHz)		10~20000			
Frequency Resolution (Hz)		3			
Frequency Switching Time (us)		≤200			
Power (dBm)		-20~+13			
Power Stability (dB)		±2			
Frequency Stability		2×10 ⁻⁷ (Same as reference)			
Frequency Accuracy		2×10 ⁻⁷ (Same as reference)			
Non-Harmonic Spurious (dBc)		≤-70			
Harmonics (dBc)		≤-7 (10~200MHz) ≤-35 (200~12000MHz) ≤-20 (12000~20000MHz)			
Phase Noise dBc/Hz	dBc/Hz@100Hz	@1GHz	≤-84	@5GHz	≤-76
	dBc/Hz@1kHz		≤-108		≤-96
	dBc/Hz@10kHz		≤-112		≤-99
	dBc/Hz@100kHz		≤-112		≤-99
	dBc/Hz@1MHz		≤-113		≤-100
Phase Noise dBc/Hz	dBc/Hz@100Hz	@10GHz	≤-68	@20GHz	≤-62
	dBc/Hz@1kHz		≤-90		≤-84
	dBc/Hz@10kHz		≤-94		≤-88
	dBc/Hz@100kHz		≤-94		≤-88
	dBc/Hz@1MHz		≤-100		≤-94
Supply Voltage (V/A)		+12/1.2 (Warm-up) +12/1 (stable)			
Connector		RF : SMA-KFD Control : J1、 J2			
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			



Ordering Information	
GFS11-0110M	Frequency Rang : 10MHz~10GHz,The outline is standard module package
GFS11-0120M	Frequency Rang : 10MHz~20GHz,The outline is standard module package
GFS11-0110-P	Frequency Rang : 10MHz~10GHz,The outline is standard PXI package
GFS11-0120-P	Frequency Rang : 10MHz~20GHz,The outline is standard PXI package