

## BFS110

### Features

- Frequency Range : 1250MHz~20000MHz
- Frequency Resolution : 300ns
- Frequency Switching Time : 10kHz
- Compact size : 146\*95\*18mm

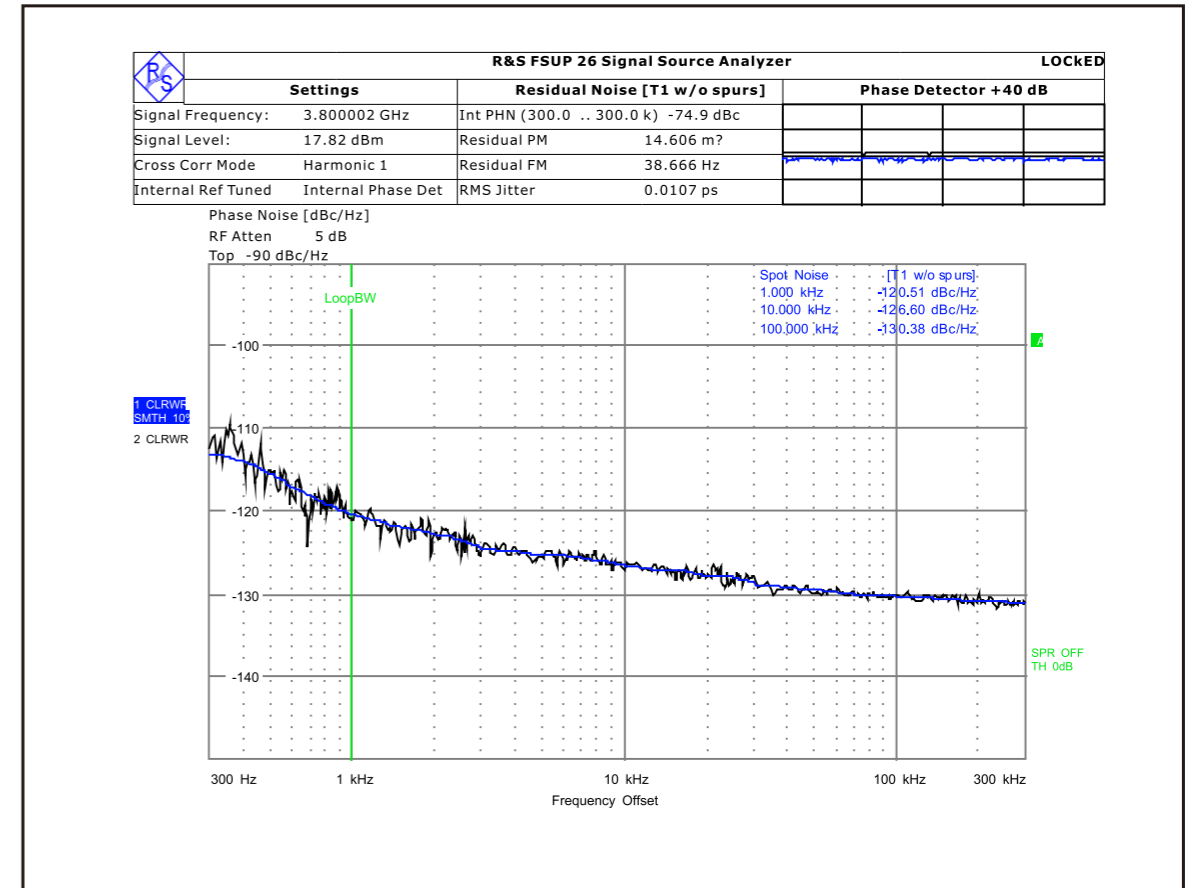
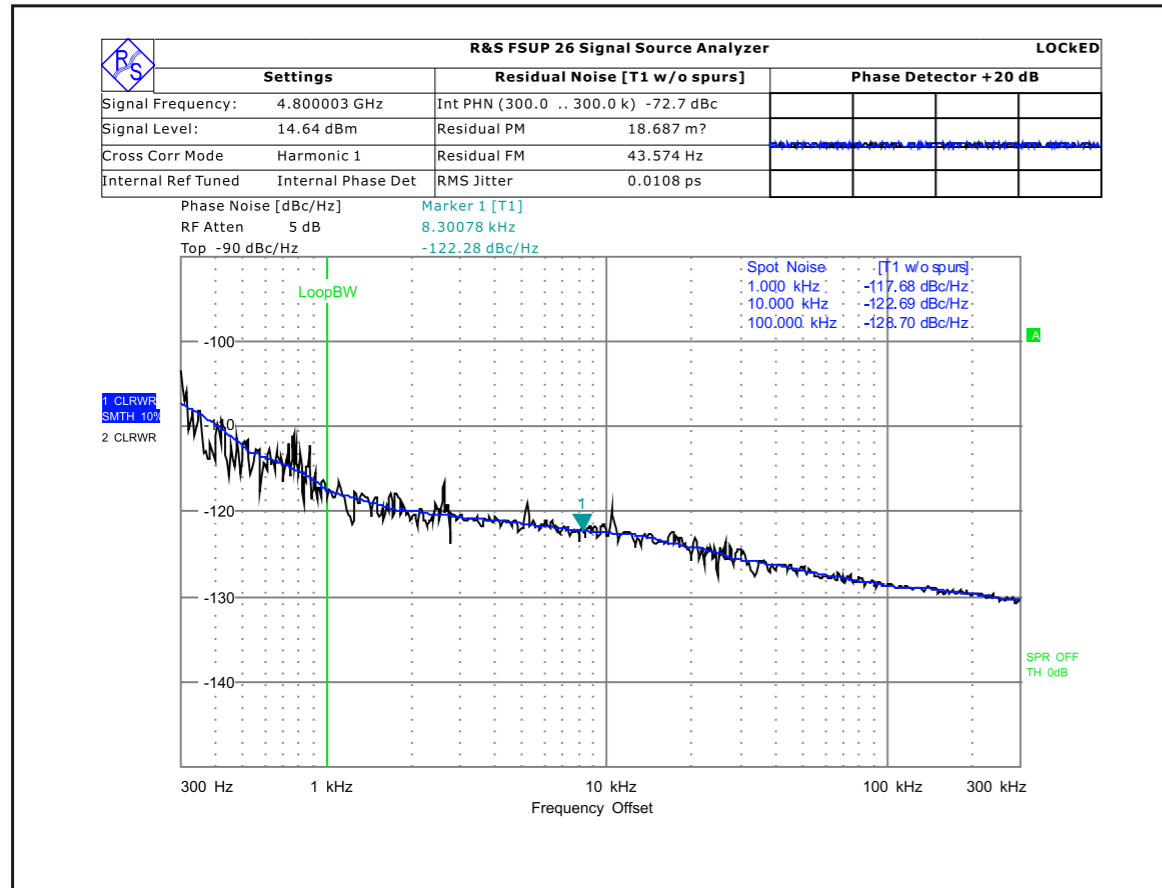
Frequency Range ( MHz )	1250~20000				
Frequency Resolution ( kHz )	10				
Frequency Switching Time ( ns )	≤300				
Power ( dBm )	≥13				
Power Stability	2×10 <sup>-7</sup> (Same as reference)				
Non-Harmonic Spurious ( dBc )	≤-60/-55(typ (max.))				
Harmonics ( dBc )	≤-7				
Phase Noise dBc/Hz	dBc/Hz@100Hz	@1GHz	≤-92	@5GHz	≤81
	dBc/Hz@1kHz		≤-121		≤-110
	dBc/Hz@10kHz		≤-125		≤-115
	dBc/Hz@100kHz		≤-125		≤-115
	dBc/Hz@1MHz		≤-125		≤-115
Phase Noise dBc/Hz	dBc/Hz@100Hz	@10GHz	≤-76	@20GHz	≤-70
	dBc/Hz@1kHz		≤-105		≤-100
	dBc/Hz@10kHz		≤-110		≤-105
	dBc/Hz@100kHz		≤-110		≤-105
	dBc/Hz@1MHz		≤-110		≤-105
Supply Voltage ( V/A )	+12/1.6 ( Warm-up ) +12/1.4 ( Stable )				
Connector	RF : SMA-KFD Contro : J30J-31				
Size ( W x L x H )	146.1*95*18mm				
Control Interface	parallel por				
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					
BFS110-0220M	Frequency Rang : 1250MHz~20000MHz				

## BFS310

### Features

- Frequency Range 1000Hz~5000MHz
- Frequency Switching Time : 300ns
- Frequency Resolution : 1Hz
- Compact size : 80\*80\*15mm

Frequency Range ( MHz )	1000~5000				
Frequency Resolution ( Hz )	1				
Frequency Switching Time ( ns )	≤300				
Power ( dBm )	≥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 )	≤-65/-60(typ (max.))				
Harmonics ( dBc )	≤-20				
Phase Noise dBc/Hz	dBc/Hz@100Hz	@1GHz	≤-100	@2GHz	≤-94
	dBc/Hz@1kHz		≤-121		≤-115
	dBc/Hz@10kHz		≤-126		≤-120
	dBc/Hz@100kHz		≤-126		≤-125
	dBc/Hz@1MHz		≤-127		≤-126
Phase Noise dBc/Hz	dBc/Hz@100Hz	@4GHz	≤-88	@5GHz	≤-86
	dBc/Hz@1kHz		≤-109		≤-107
	dBc/Hz@10kHz		≤-114		≤-112
	dBc/Hz@100kHz		≤-119		≤-117
	dBc/Hz@1MHz		≤-120		≤-119
Supply Voltage ( V/A )	+12/10				
Connector	RF : SMA-KFD Contro : J30J-31				
Size ( W x L x H )	80*80*16mm				
Control Interface	parallel port				
Temperature Range(operating) ( °C )	-40~+70				
Temperature Range (non-operating) ( °C )	-55~+85				



Ordering Information	
BFS310-3800-4800-10	BFS310 Model
① ② ③	① Starting frequency, The unit is MHz
	② End frequency, The unit is MHz
	③ Frequency Resolution, The unit is Hz