

FFS-200-15000-1

0.2~15GHz

Features:

- * High Frequency Stability
- * Ultra Low Phase Noise

Applications:

- * Wireless
- * Transceiver
- * Laboratory Test
- * Radar

Electrical

Output Frequency:	0.2~15GHz
Step:	1Hz
Switching Speed:	500μS max. (6~15GHz: 250μS max. 2~6GHz: 300μS max. 1~2GHz: 350μS max. 0.2~1GHz: 500μS max.)
Output Power:	1±6dBm@25 1±8dBm@70
Frequency Stability:	same as reference
Frequency Accuracy:	same as reference, 0.04Hz
Output Spurious:	-60dBc max.
Output Harmonic:	-5dBc max.
External Reference:	100MHz
Reference Power:	7±3dBm
Reference Phase Noise:	-153dBc/Hz max. @1kHz
Voltage:	+3.3±0.1V DC +3.4V DC max.
Current:	0.6A (stable)
Control Type:	SPI
Impedance:	50Ω

		Output Phase Noise(dBc/Hz)			
		1GHz	5GHz	10GHz	15GHz
Offset	100Hz	-94	-80	-74	-70
	1KHz	-105	-91	-85	-81
	10KHz	-112	-98	-92	-88
	100KHz	-114	-100	-94	-90
	1MHz	-130	-116	-110	-106

Mechanical

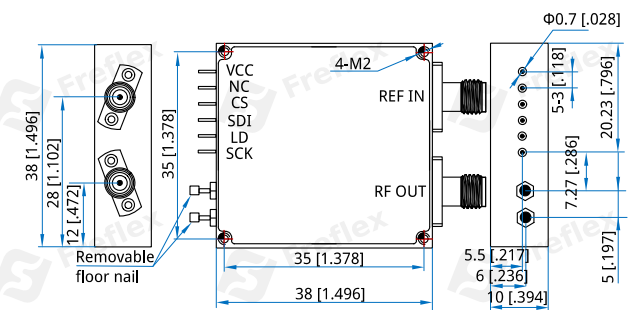
Size*1:	38*38*10mm 1.496*1.496*0.394in
REF Connectors:	SMA Female (removable)
Power & Control Interface:	Feed Through/Terminal Post
Mounting:	4-M2 Through hole

[1] Exclude connectors.

Environmental

Operating Temperature:	-40~+70°C
Non-operating Temperature:	-55~+85°C

Outline Drawings



Unit: mm [in]

Tolerance: ±0.2mm [±0.008in]

Pin Numbering

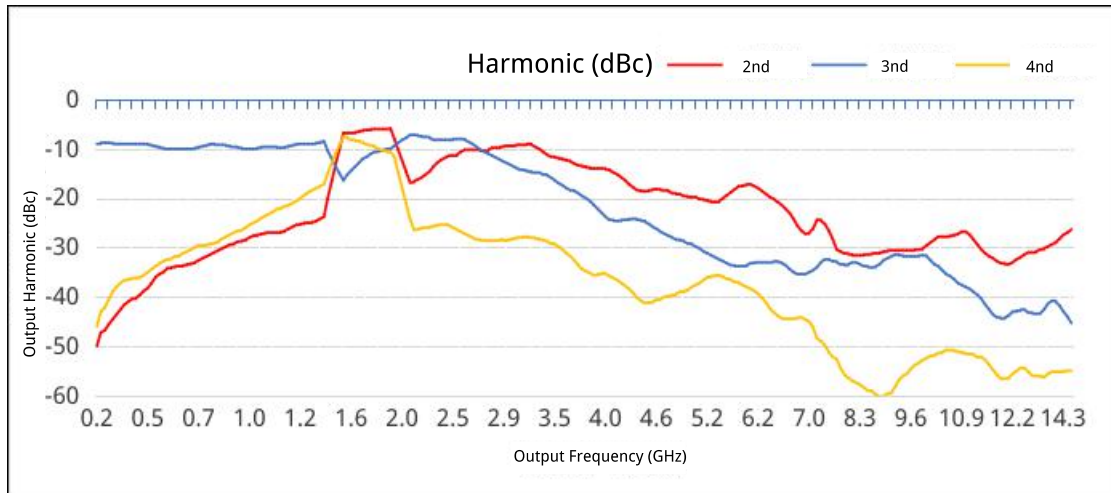
Pin	Function
VCC	+3.3V
NC	Feed Through/Terminal Post (Φ0.7)
CS	Feed Through/Terminal Post (Φ0.7)
SDI	Feed Through/Terminal Post (Φ0.7)
LD-out	Feed Through/Terminal Post (Φ0.7)
SCK	Feed Through/Terminal Post (Φ0.7)

How To Order

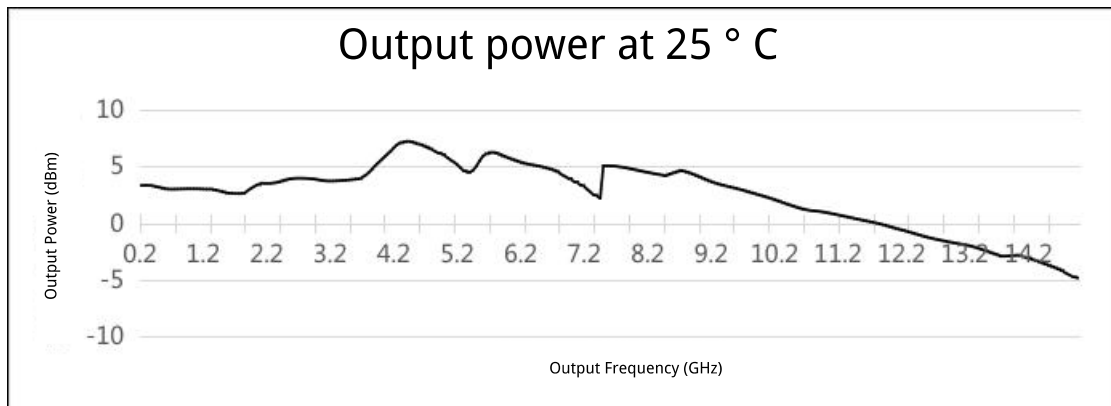
FFS-200-15000-MS-1

Customization is available upon request.

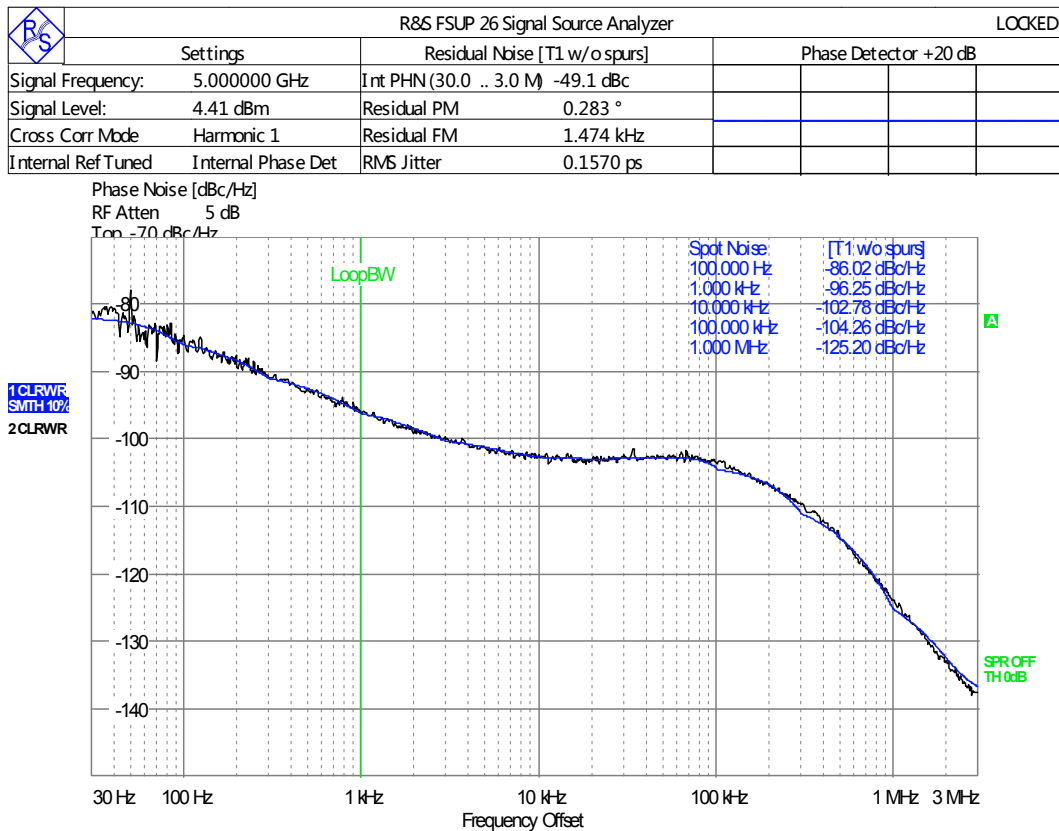
Typical Performance Curves:
2&3&4th Harmonic (dBc)



Output Power (dBm)



5GHz Phase Noise (dBc)



10GHz Phase Noise (dBc)

