

FAFS-1250-20000-MS

1.25~20GHz

Features:

- * High Frequency Stability
- * Ultra Low Phase Noise

Applications:

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

Electrical

Output Frequency:	1.25~10GHz 2.5~20GHz
Step:	0.1Hz
Switching Speed:	10μS max.
Output Power:	5dBm min.
Frequency Stability:	same as reference
Output Spurious:	-60dBc max.
Output Harmonic:	-5dBc max.
External Reference:	100MHz
Reference Power:	7±3dBm
Reference Phase Noise:	-125dBc/Hz max. @100Hz -153dBc/Hz max. @1kHz -160dBc/Hz max. @10kHz -160dBc/Hz max. @100kHz -165dBc/Hz max. @1MHz
Voltage:	+12±0.5V DC +15V DC max.
Current:	1.5A (first) 0.8A (stable)
Control Type:	SPI
Impedance:	50Ω

		Output Phase Noise(dBc/Hz)			
		1GHz	5GHz	10GHz	20GHz
Offset	100Hz	-95	-81	-75	-69
	1KHz	-105	-91	-85	-79
	10KHz	-115	-101	-95	-89
	100KHz	-115	-101	-95	-89
	1MHz	-115	-101	-95	-89

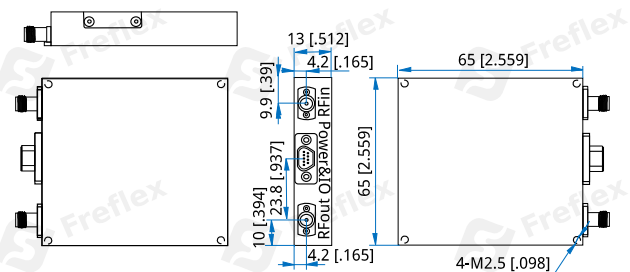
Mechanical

Size*1:	65*65*13mm 2.559*2.559*0.512in
RF Connectors:	SMA Female (removable)
Power & Control Interface:	J30J-9-ZKP
Mounting:	4-M2.5 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
1	+12V
2	+12V
3	GND
4	GND
5	LD (Locked: high voltage)
6	MOSI (SPI communication interface)
7	MISO (SPI communication interface)
8	SCK (SPI communication interface)
9	LE (SPI communication interface)

How To Order
[FAFS-1250-10000-MS](#)
[FAFS-2500-20000-MS](#)

Customization is available upon request.