

FFS-200-40000

0.2~40GHz

Features:

- * High Frequency Stability
- * Ultra Low Phase Noise

Applications:

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

Electrical

Output Frequency:	0.2~40GHz
Step:	0.1Hz (0.2~20GHz) 0.2Hz (0.2~40GHz)
Switching Speed:	200μS max.
Output Power:	-40~+10dBm
Frequency Stability:	2x10 ⁻⁷ (or same as ext. reference)
Frequency Accuracy:	2x10 ⁻⁷ (or same as ext. reference)
Output Spurious:	-65dBc max. -60dBc max. (20~40GH)
Output Harmonic:	-20dBc max.
Voltage:	+12V DC
Current (fist):	1.6A, 1.8A@20~40GHz
Current (stable):	1.2A, 1.4A@20~40GHz
Control Type:	UART/ (and PXI)
Impedance:	50Ω

Mechanical

REF Connectors:	SMA Female
Power & Control Interface:	J1, J2 (PXI) J30J-09 (Module)
Mounting:	4-M2.5 Through hole

Environmental

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

Pin Numbering

Pin	Function
1	+12V
2	+12V
3	GND
4	GND
5~7	NC
8	RX
9	TX

Offset	Freq.	Output Phase Noise(dBc/Hz)											
		0.5GHz		1GHz		5GHz		10GHz		20GHz		40GHz	
		Standard	L option	Standard	L option	Standard	L option	Standard	L option	Standard	L option	Standard	L option
100Hz		-110	-114	-105	-108	-91	-98	-85	-92	-79	-85	-73	-79
1KHz		-132	-133	-127	-127	-113	-116	-107	-112	-101	-105	-95	-99
10KHz		-141	-142	-135	-137	-122	-125	-116	-120	-110	-114	-104	-108
100KHz		-141	-142	-135	-137	-122	-125	-116	-120	-110	-114	-104	-108
1MHz		-141	-142	-135	-137	-122	-125	-116	-120	-110	-114	-104	-108

How To Order

FFS-200-20000-MU - Module, UART

FFS-200-20000-XU - PXI, UART

FFS-200-20000-MUL - Module, UART, Low Phase Noise

FFS-200-20000-XUL - PXI, UART, Low Phase Noise

FFS-200-40000-MU - Module, UART

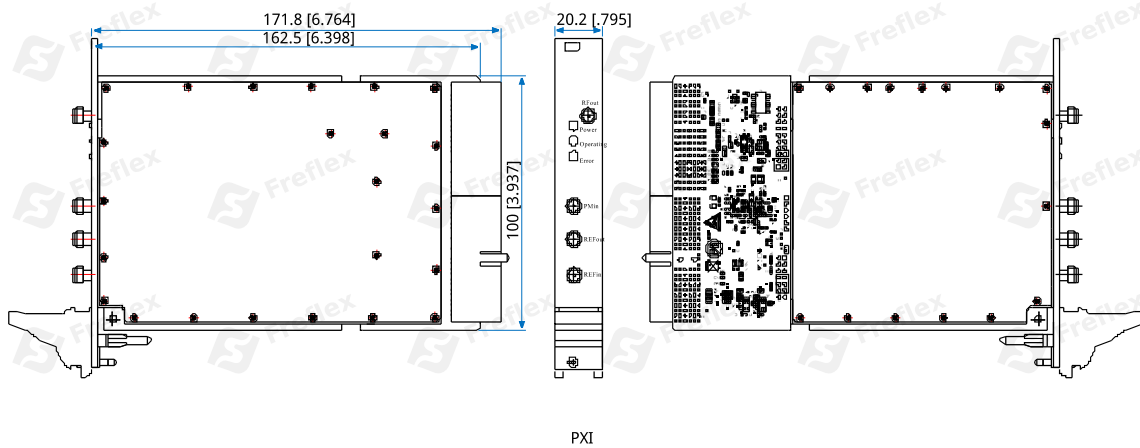
FFS-200-40000-XU - PXI, UART

FFS-200-40000-MUL - Module, UART, Low Phase Noise

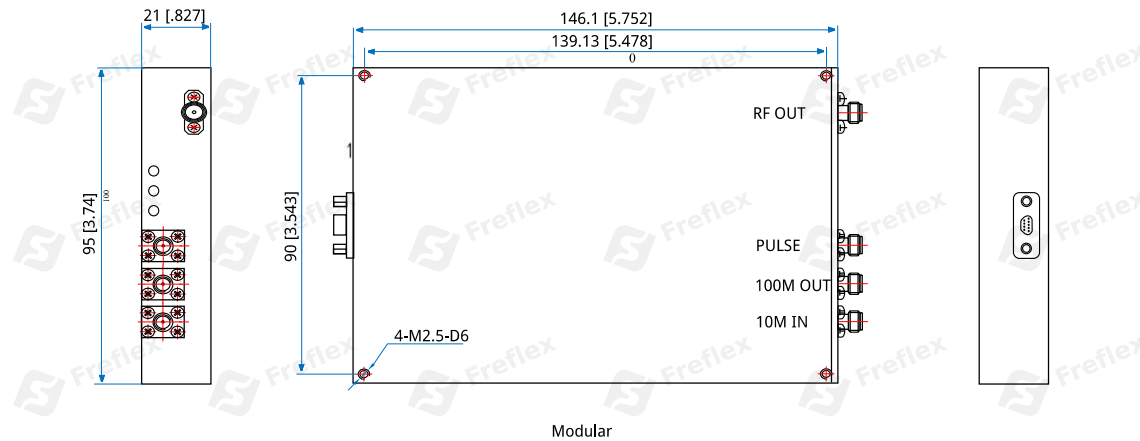
FFS-200-40000-XUL - PXI, UART, Low Phase Noise

Customization is available upon request.

Outline Drawings*1



PXI



Modular

Unit: mm [in]

Tolerance: $\pm 0.2\text{mm}$ [$\pm 0.008\text{in}$]

[1] This is the outline drawing of the output frequency 0.2~20GHz. When the output frequency is 0.2~40GHz, the Module height increases by 35mm.