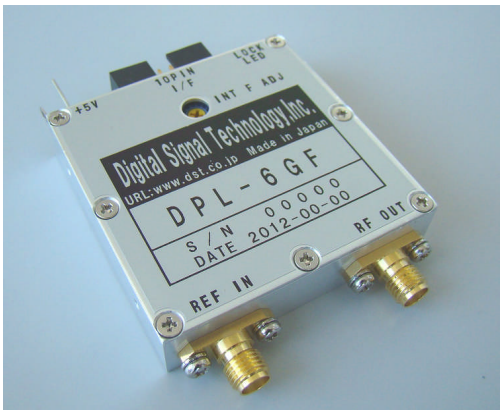
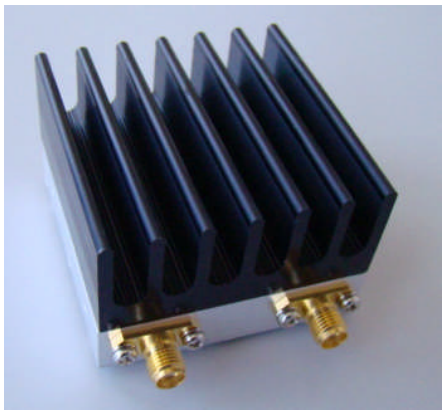
Programmable Frequency Synthesizer

DPL-6GF



DPL-6GFH(with Heat Sink)



Features

- Low phase noise
- Programmable(1KHz or 2KHz step)
- 50MHz～6000MHz （Band width : 20%）
- ＋5V single power supply
- Compact size

Digital Signal Technology, Inc

1-7-30, Higashi Benzai, Asaka, Saitama, 351-0022, Japan

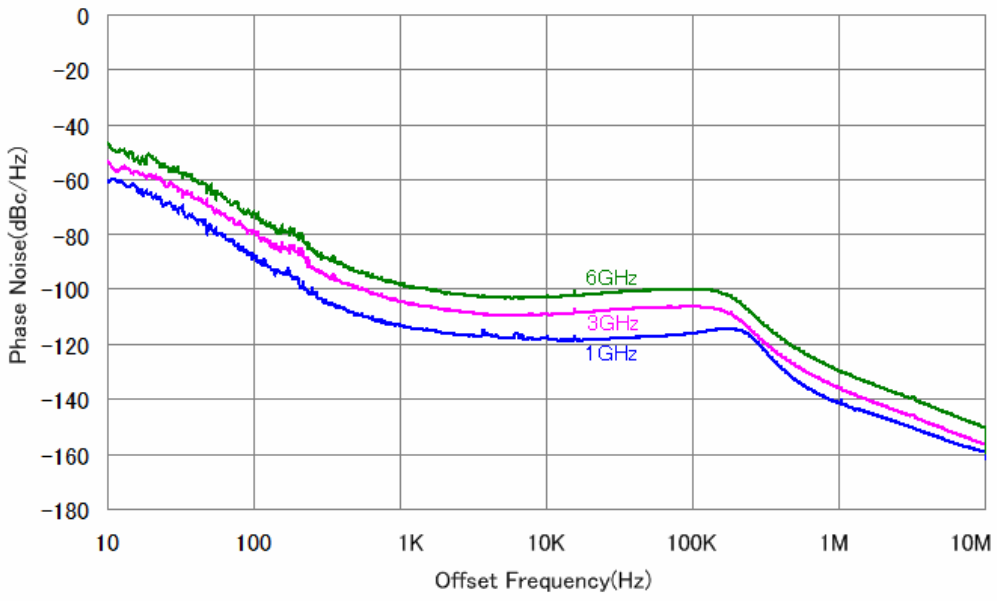
TEL 81-48-468-6094　FAX 81-48-468-6210

http://www.dst/co/jp/en

Specification

Power Supply/Current	＋5V+/−5%, <600mA	
Frequency Range	50MHz− 6GHz (band width 20%) ** When no output filter is selected as an option, a programmable output in a 1KHz step is allowed from 50MHz to 3GHz(No longer a sine wave).	
Frequency Resolution	50MHz ～ 3GHz 1KHz step	3GHz ～ 6GHz 2KHz step
Output Level	>＋10dBm	
Output impedance	50Ω	
Spurious	<−65dBc	
Harmonics	<−40dBc (in case of no output filter option: <−8dBc)	
Phase Noise 6GHz(typical)	−80dBc／Hz	@100Hz
	−97dBc／Hz	@1KHz
	−102dBc／Hz	@10KHz
	−99dBc／Hz	@100KHz
	−126dBc／Hz	@1MHz
Internal Reference Clock Accuracy	<+/−15ppm 0−50 decree C	
External Reference Clock and level	10MHz −6dBm − +6dBm	
Lock Time	Max40msec	
Operating Temperature Range	0 − ＋50 degree C(In case of being installed with thermal resistance 6.5(degree C/W) heat sink)	
Outer Dimensions	50mm×50mm×12.5mm	
	50mm×50mm×33.5mm (with Heat Sink)	
Interface	(1) Asynchronous Serial Communication	9600bps, 8bits, one step bit, non−parity 3.3V CMOS level
	(2) SPI serial communication 3 bytes data	3.3V CMOS level

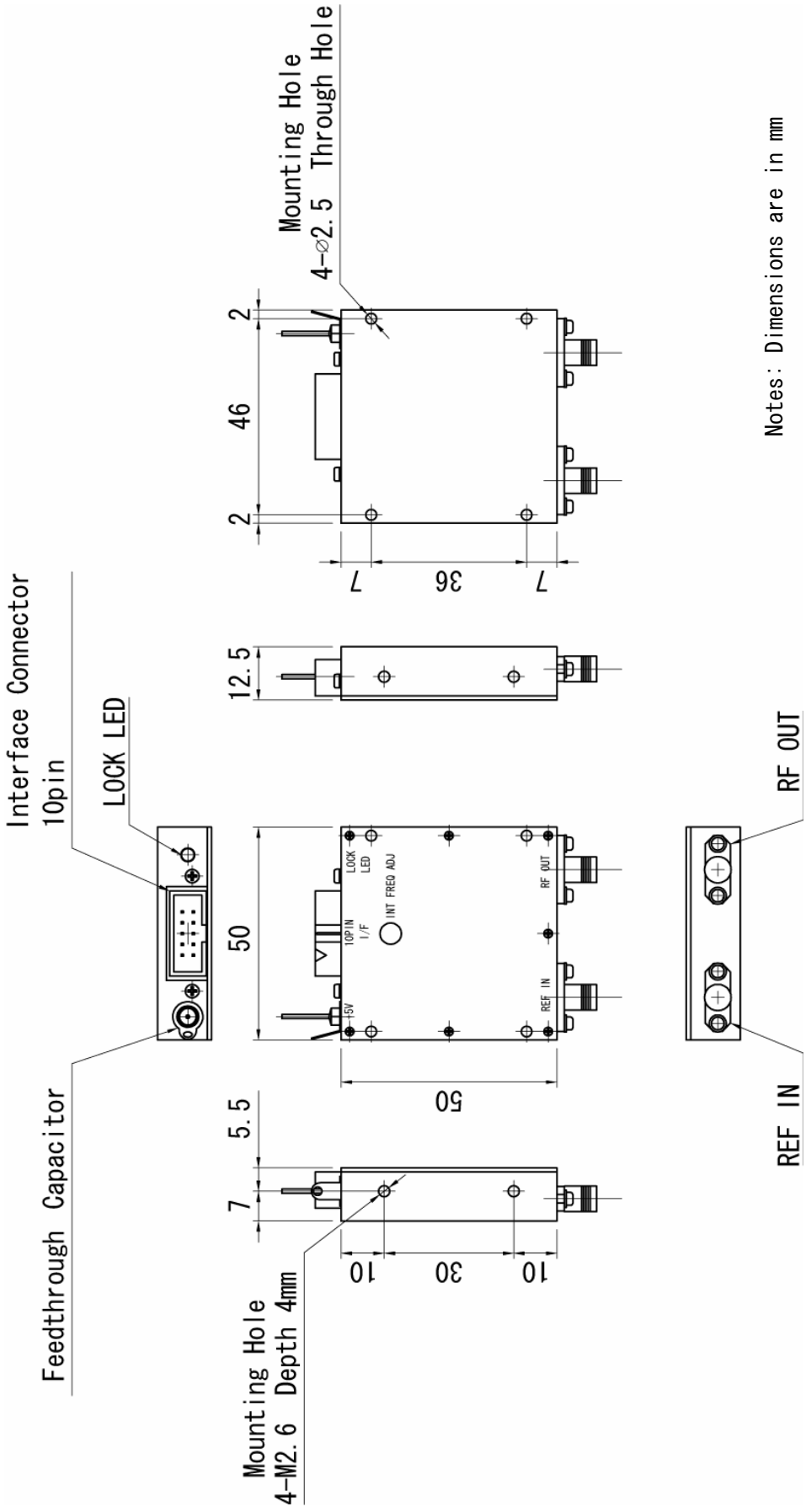
Phase Noise



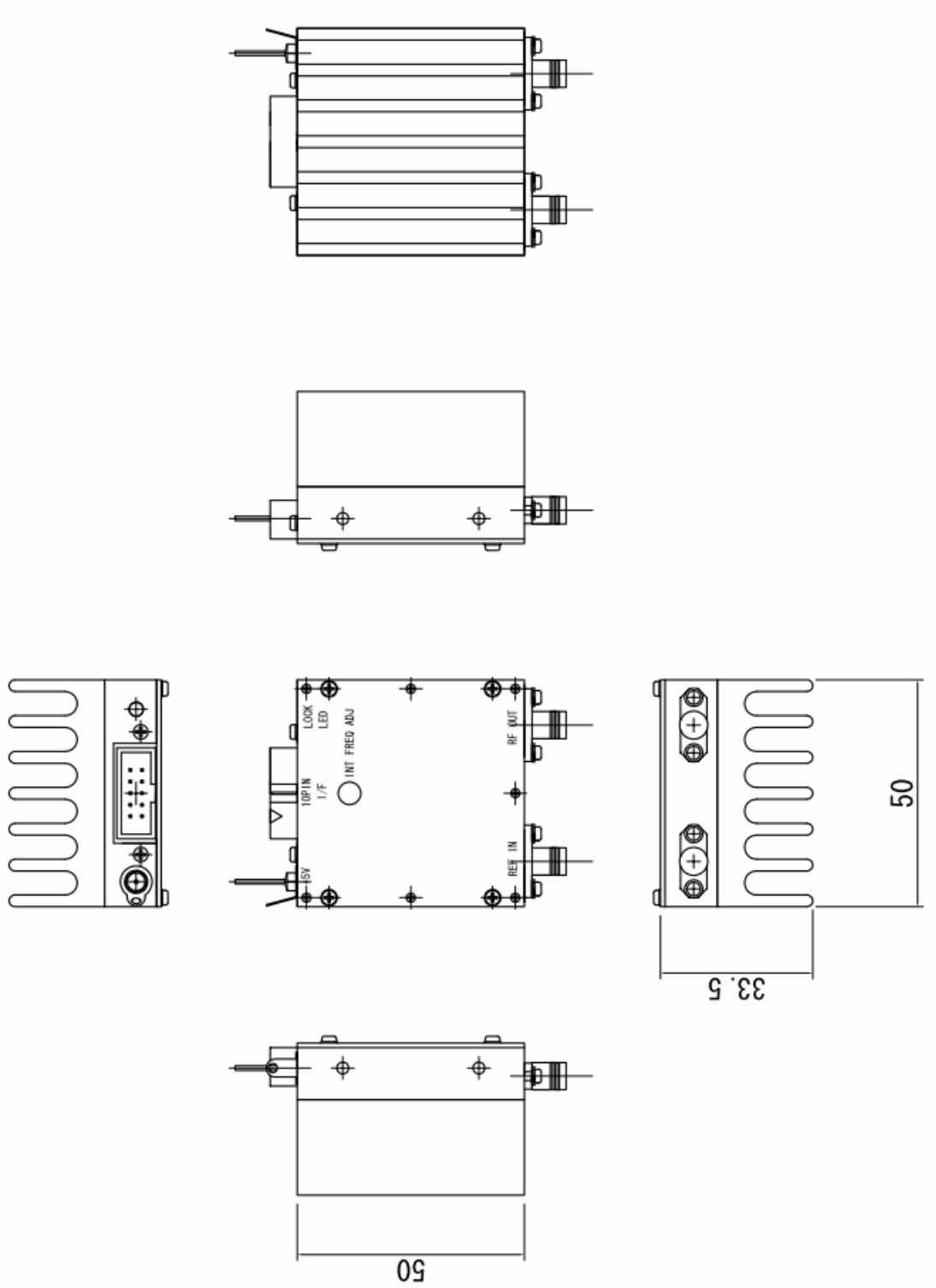
Option

USB interface **USBIF-01**

Outer Dimensions for DPL-6GF



Outer Dimensions for DPL-6GFH



Notes: Dimensions are in mm