

# Ultra Low Phase Noise X-Band Frequency Synthesizer

## Model : N-DCN-DC922-102(V2)-IR

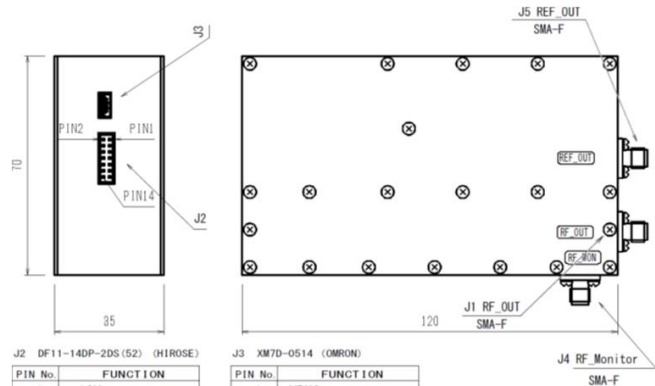
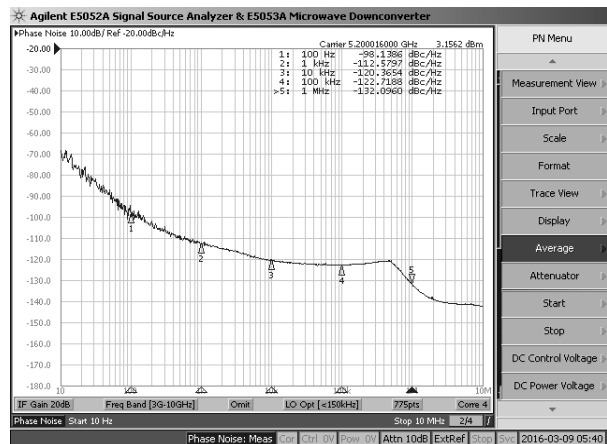
### Features

- \* Extremely Low Close-in Phase Noise :  $\leq -95\text{dBc/Hz}$  @ 100Hz offset
- \* Internal Reference : 1GHz OCXO
- \* High Frequency Stability :  $5 \times 10\text{E}-8$
- \* High Immunity to Phase Hits
- \* Control Interface : 3-Wires Serial Data, USB/UART
- \* Compact Package : 120 x 70 x 35 mm  
4.7 x 2.76 x 1.38 inch



### Typical Performance

Frequency Range	4600 ~ 5200MHz
Step Size	1MHz <sup>(1)</sup>
Output Power	+13dBm <sup>(2)</sup>
Phase Noise	$\leq -95\text{dBc/Hz}$ @ 100Hz $\leq -105\text{dBc/Hz}$ @ 1KHz $\leq -120\text{dBc/Hz}$ @ 10KHz $\leq -123\text{dBc/Hz}$ @ 100KHz
Spurious, Harmonics	-35dBc
Non-Harmonics	-65dBc
Frequency Stability -30 ~ +70°C	$5 \times 10\text{E}-8$
Lock-UP Time	20msec
Control Interface	3-wires, Serial Data USB/UART Format
DC Power	+12V, 900mA Max
Operating Temp. Range	-40 ~ +80°C



J2 DF11-14DP-2DS (52) (HIROSE)

PIN No.	FUNCTION
1	+12V
2	GND
3	NC
4	GND
5	NC
6	LD
7	GND
8	GND
9	CLK
10	DATA
11	STB
12	NC
13	GND
14	GND

J3 XM7D-0514 (OMRON)

PIN No.	FUNCTION
1	VBUS
2	D-
3	D+
4	NC
5	GND

RoHS

### Option

- (1) Small step size down to 1KHz is also available.
- (2) Output Power, +6~+20dBm is available.
- (3) RF Monitor Output -20dBc, Ref. Output 100MHz or 10MHz are available.