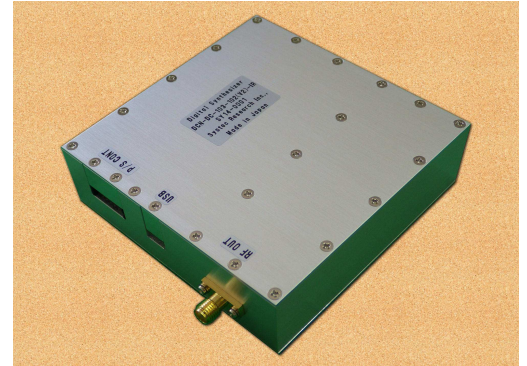


Ultra Low Phase Noise X-Band Frequency Synthesizer

Model : DCN-DC103-102(V2)-IR

Features

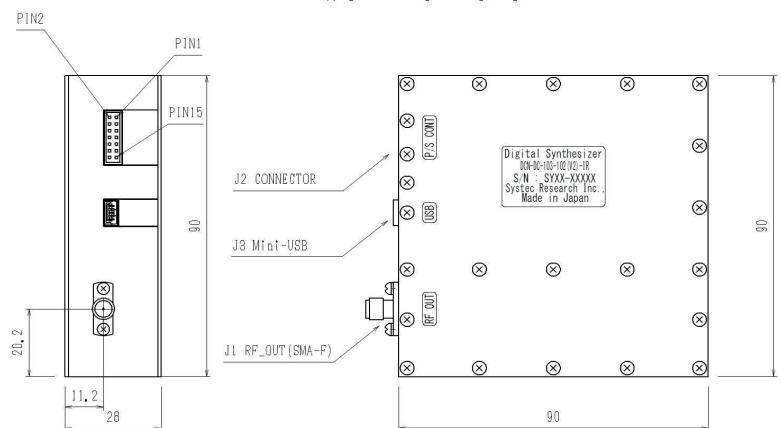
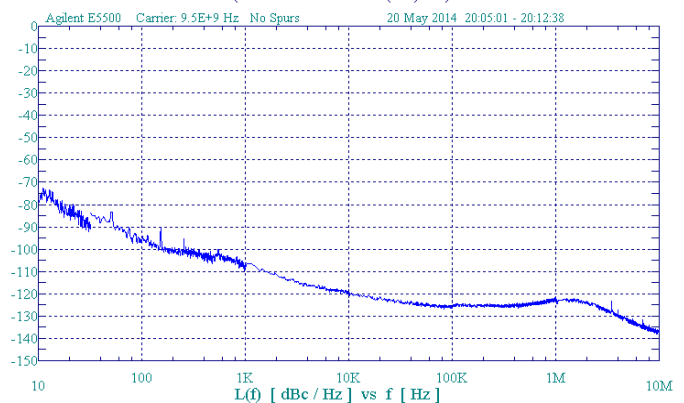
- * Extremely Low Close-in Phase Noise : $\leq -95\text{dBc/Hz}$ @ 100Hz offset
- * Internal Reference : 1GHz OCXO
- * High Frequency Stability : $5 \times 10\text{E-8}$
- * High Immunity to Phase Hits
- * Control Interface : 3-Wires Serial Data, USB/UART
- * Operation Mode : CW, FM Chirp, Frequency Hopping
- * Compact Package : 90 x 90 x 28 mm
3.54 x 3.54 x 1.1 inch



Typical Performance

Frequency Range	9.0 ~ 10.0GHz
Step Size	1MHz ⁽¹⁾
Output Power	+12dBm ⁽²⁾
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 Non-Harmonics	-35dBc -65dBc
Frequency Stability -30 ~ +70°C	$5 \times 10\text{E-8}$
Control Interface	3-wires, Serial Data USB/UART Format
DC Power	+15V, 900mA Max -5V, 50mA Max
Operating Temp. Range	-40 ~ +80°C

9500MHz(DCN-DC-103-102(V2)-IR)-DDS-04



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

PIN No.	FUNCTION
1	+15_V
2	GND
3	-5_V
4	GND
5	STROBE
6	CLOCK
7	DATA
8	ACK
9	RAM_SWEEP_OVER
10	IO_UPDATE
11	PROFILE0
12	PROFILE1
13	PROFILE2
14	LD

J3 XM7D-0514 (OMRON)

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

UNIT : mm

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.

RoHS

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