SIMON
Elektronika Teknologio Co.,Ltd

PDRO57L

Low Phase Noise PDRO





Features

- **Output Frequency up to 52GHz**
- **Low Phase Noise**
- **Low Power Consumption**
- **Low Spurious**

Specifications

Parameter	PDRO57L
Frequency Range (GHz) ★	1~52
Output Power (dBm)	⩾+10
Spurious (dBc) ★	≥70 (1~44GHz) /≥65 (44~52GHz)
Harmonics (dBc)	≥ 20
Input Reference Frequency / Phase Noise	100MHz/-170dBc/Hz@1KHz
Reference Power (dBm)	⩾+15
Power Consumption (V / mA)	≤ +12V / 400 (External Ref) ≤ +12V / 700 (Internal Ref)
Lock	TTL High Level when Locked
Operating Temperature (°C)	-40 ~ +70
Storage Temperature (°C)	-55 ~ +85
Dimensions (mm)	57. 2×57.2×15.7

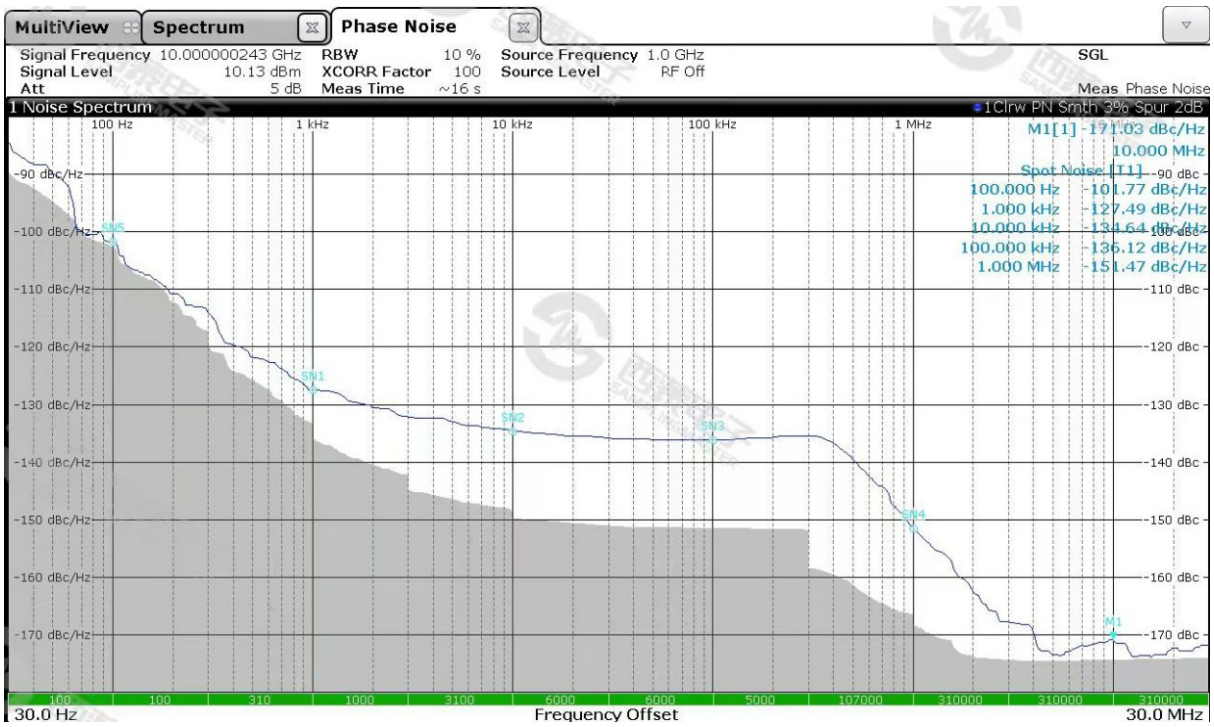
★ **Note:** 1： The output frequency is factory-set to a specific value between 1 GHz and 52 GHz and is not adjustable after production.

2：For output frequency 16~32GHz, 1/2 harmonic ≥ 60dBc; For frequency 32~52GHz, 1/4, 2/4, 3/4, 5/4 harmonics ≥ 60dBc.

Phase Noise

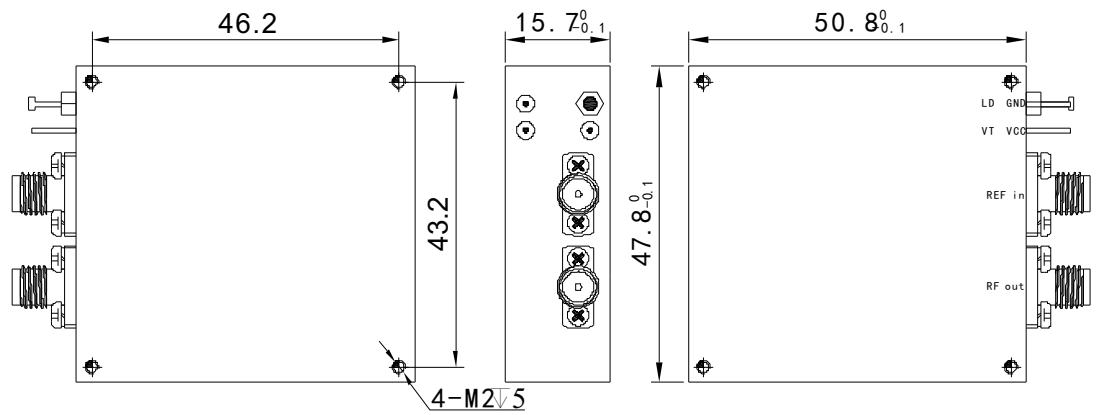
Offset	1GHz	5GHz	10GHz	20GHz	44GHz
dBc/Hz@100Hz	-120	-105	-99	-93	-86
dBc/Hz@1KHz	-145	-131	-125	-119	-112
dBc/Hz@10KHz	-154	-138	-132	-126	-119
dBc/Hz@100KHz	-156	-139	-134	-126	-119
dBc/Hz@1MHz	-174	-152	-148	-142	-135

Phase Noise @ 10GHz

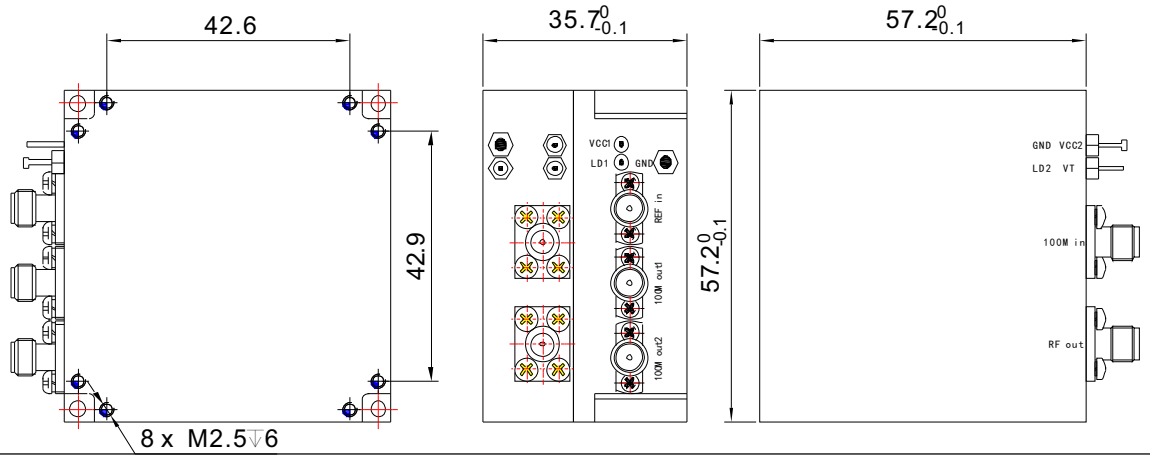


Dimensions

External Reference Dimensions



Internal Reference Dimensions



Ordering Information

	No.	Description
PDRO57L- XXXX-100 - E/I- 10 ① ② ③ ④ ⑤	1.	Model: PDRO57L
	2.	Output Frequency (Integer multiple of the input reference)
	3.	PDRO Input Reference Frequency (Options: 80MHz / 100MHz / 120MHz)
	4.	Reference Type E: External Reference Input / I: Internal Reference
	5.	PDRO Output Power (Option: 10dBm)
For example: PDRO57-12000-100-E-10 represents an output of 12 GHz, where "E" denotes an external reference with an external reference frequency of 100 MHz and an output power of 10 dBm.		