SIMON
Elektronika Teknologio Co.,Ltd

PDRO57





Features

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

Specifications

Parameter	PDRO57
Frequency Range (GHz) ★	1~52
Output Power (dBm)	≥+10
Spurious (dBc) ★	≥ 70
Harmonics (dBc)	≥ 20
Input Reference Frequency / Phase Noise	100MHz/-157dBc/Hz@1kHz
Reference Power (dBm)	3~10
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.

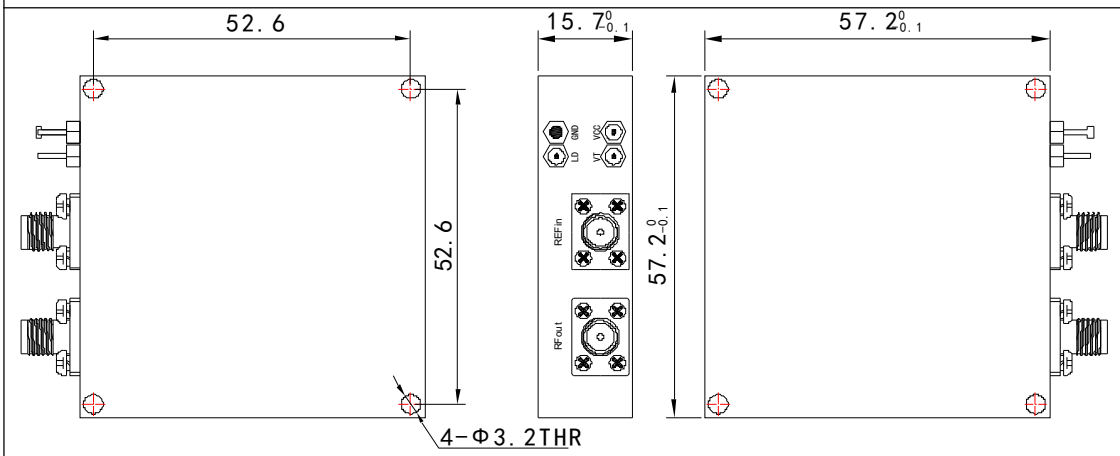
2：For output frequency 16~32GHz, 1/2 harmonic ≥ 60dBc; For frequency 32~52GHz, 1/4, 2/4, 3/4, 5/4 harmonics ≥ 60dBc.

Phase Noise

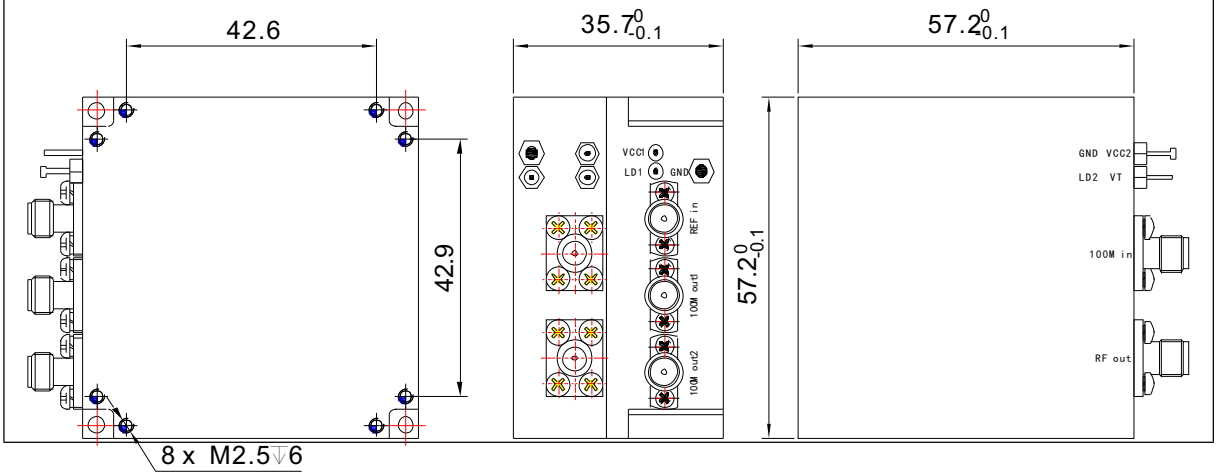
Offset	1GHz	5GHz	10GHz	20GHz	44GHz
dBc/Hz@100Hz	-108	-95	-88	-80	-72
dBc/Hz@1KHz	-133	-118	-113	-104	-97
dBc/Hz@10KHz	-135	-126	-120	-113	-106
dBc/Hz@100KHz	-135	-126	-120	-113	-106
dBc/Hz@1MHz	-140	-140	-140	-134	-130

Dimensions

External Reference Dimensions



Internal Reference Dimensions



Ordering Information

PDRO57- XXXX-100 - E/I- 10 ① ② ③ ④ ⑤	No.	Description
	1.	Model: PDRO57
	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.		