

PDRO

特点:

- ◆ 输出最高频率 44GHz
- ◆ 低相位噪声
- ◆ 低功率/低杂散
- ◆ 可以输出小数频率

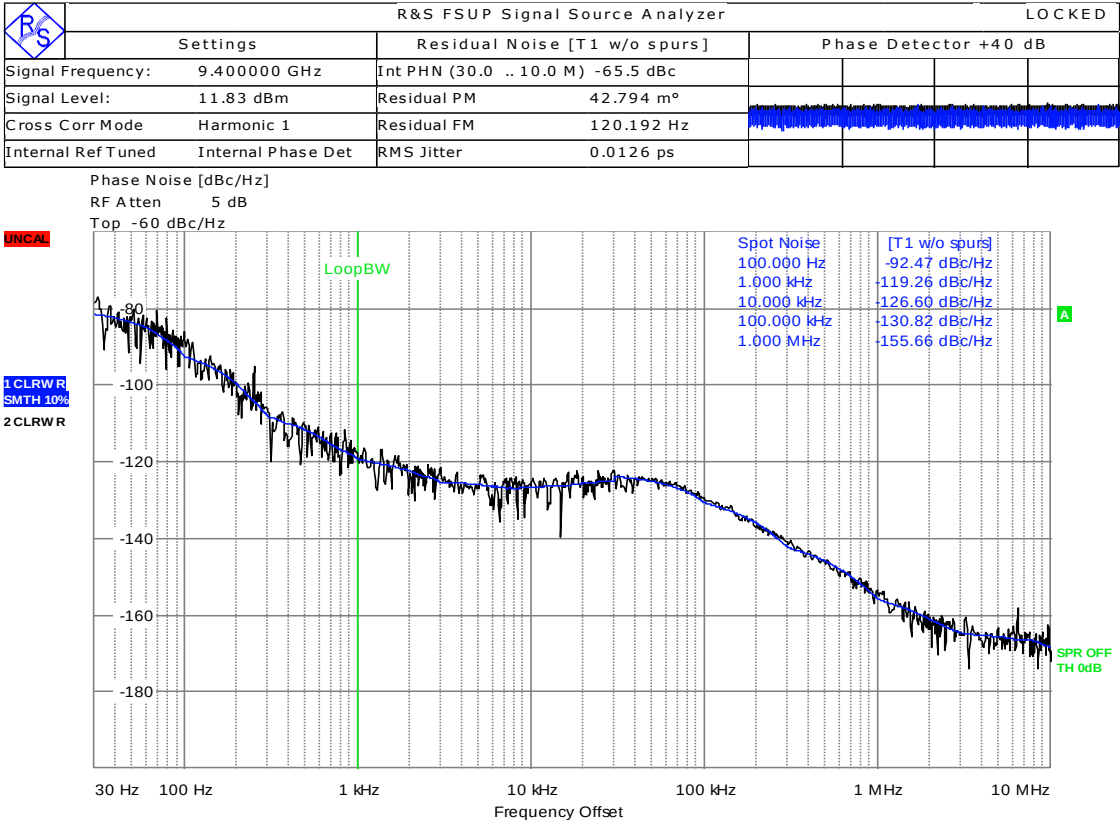


型号	PDR050	PDR057
输出频率范围 (GHz)	1~16	1~44
输出功率 (dBm)	≥10	≥10
输入参考频率/相噪	100MHz/-157dBc/Hz@1KHz	
参考信号输入功率 (dBm)	+3~+10	
系统相位噪声基底	-140dBc/Hz@100Hz	
	-158dBc/Hz@1KHz	
	-165dBc/Hz@10KHz	
	-165dBc/Hz@100KHz	
相位噪声	见下表	
杂散抑制 (dBc) ★	≥70	
谐波抑制 (dBc)	≥20	
功耗 (V/mA)	≤+12/300 (输出功率为≥10 dBm)	
锁定指示	锁定时, 输出 TTL 高电平	
工作温度 (℃)	-40~+70	
储存温度 (℃)	-55~+85	
外形尺寸 (mm)	50.8×47.8×15.7	57.2×57.2×15.7

相位噪声

频率	1	2	4	6	8	10	12	14	16
dBc/Hz@100Hz	108	102	-96	-92	-92	-88	-88	-86	-83
dBc/Hz@1KHz	-133	-126	-120	-116	-115	-113	-110	-108	-102
dBc/Hz@10KHz	-135	-131	-126	-120	-120	-120	-118	-118	-105
dBc/Hz@100KHz	-135	-131	-126	-120	-120	-120	-120	-118	-110
dBc/Hz@1MHz	-140	-140	-140	-140	-140	-140	-140	-140	-140
频率	18	20	24	26	28	32	36	40	44
dBc/Hz@100Hz	-83	-80	-80	-80	-78	-78	-76	-73	-72
dBc/Hz@1KHz	-108	-104	-104	-102	-102	-96	-95	-94	-93
dBc/Hz@10KHz	-114	-113	-112	-110	-110	-99	-97	-94	-93
dBc/Hz@100KHz	-114	-113	-112	-110	-110	-104	-103	-102	-102
dBc/Hz@1MHz	-136	-134	-133	-131	-131	-130	-130	-130	-130

★备注：输出频率为 16~44GHz 时，1/2 谐波≥60dBc



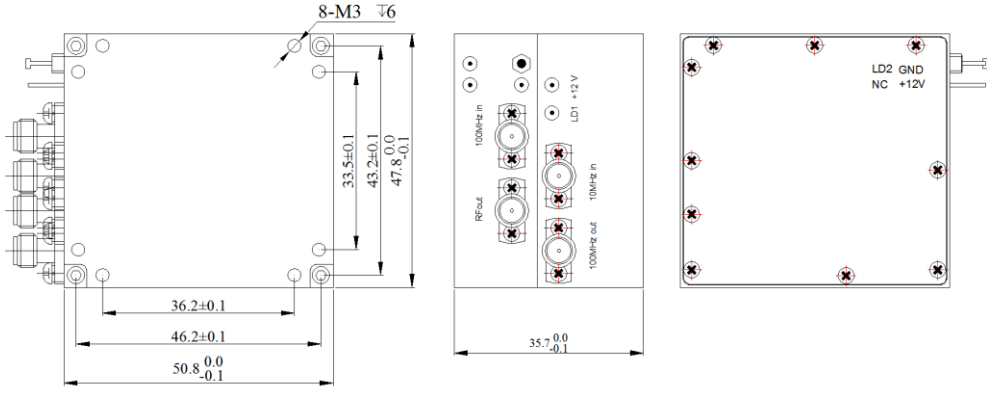
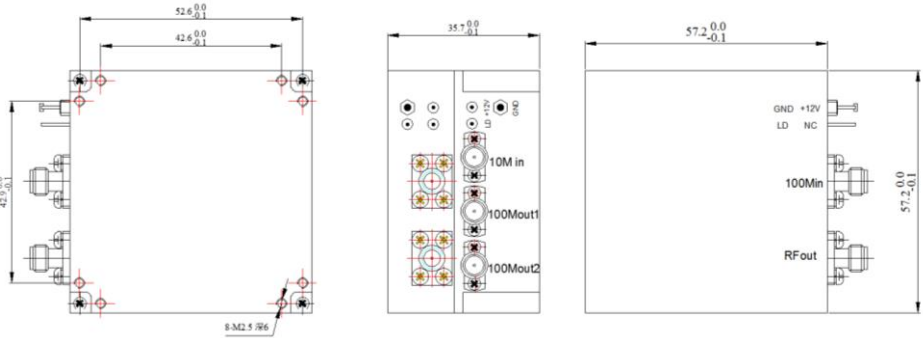
型号选择

产品订货编号 PDROXX - XXXX-100 - E/I- 10 ① ② ③ ④ ⑤	编号			
	①	型号	体积	频率范围
		PDR050	50.8*47.8*15.7	1~16 GHz
		PDR057	57.2*57.2*15.7	1~44 GHz
	②	代表 PDRO 输出频率		
		参考整数倍和小数频两种模式，小数频的频率分辨率为 1Hz		
	③	代表 PDRO 输入参考频率		
		参考频率选择：80MHz/100MHz/120MHz		
	④	代表 PDRO 内外参考		
		E:代表为外参考输入/I: 代表为内参考		
	⑤	代表 PDRO 输出功率		
		输出功率选择范围：10dBm		

外参考外形尺寸

PDR050	Top view dimensions: 46.2±0.1, 50.8^{0.0}_{-0.1}, 43.2±0.1, 47.8^{0.0}_{-0.1}. 4-M2.2深5. Side view dimension: 15.7^{0.0}_{-0.1}. Bottom view labels: LD, GND, NC, +12V, REF in, RF out.
PDR057	Top view dimensions: 57.2^{0.0}_{-0.1}, 52.6^{0.0}_{-0.1}, 52.6, 57.2^{0.0}_{-0.1}. 4-Φ3.2通孔. Side view dimensions: 15.7^{0.0}_{-0.1}, 100M in, RF out. Bottom view labels: GND, +12V, LD, VT, REF in, RF out.

内参考外形尺寸

PDRO50	 Technical drawings of the PDRO50 module. The top view shows a rectangular footprint with dimensions: 36.2±0.1, 46.2±0.1, and 50.8^{0.0}_{-0.1}. The side view shows a height of 8-M3 and a distance of 33.5±0.1. The rear view shows a 35.7^{0.0}_{-0.1} width and various ports: 100MHz in, RFout, 100MHz out, and 10MHz in. The bottom view shows a 47.8^{0.0}_{-0.1} width and a 43.2±0.1 distance.
PDRO57	 Technical drawings of the PDRO57 module. The top view shows a rectangular footprint with dimensions: 42.9^{0.0}_{-0.1}, 52.6^{0.0}_{-0.1}, and 42.6^{0.0}_{-0.1}. The side view shows a height of 8-M2.5 and a distance of 35.7^{0.0}_{-0.1}. The rear view shows a 57.2^{0.0}_{-0.1} width and various ports: GND +12V, LD NC, 100MHz in, 100MHz out1, 100MHz out2, and RFout. The bottom view shows a 57.2^{0.0}_{-0.1} width and a 57.2^{0.0}_{-0.1} height.



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