

## PDRO

## Standard PDRO

## Features

- High frequency up to 32GHz
- Low phase-noise
- Low power consumption
- Low spur

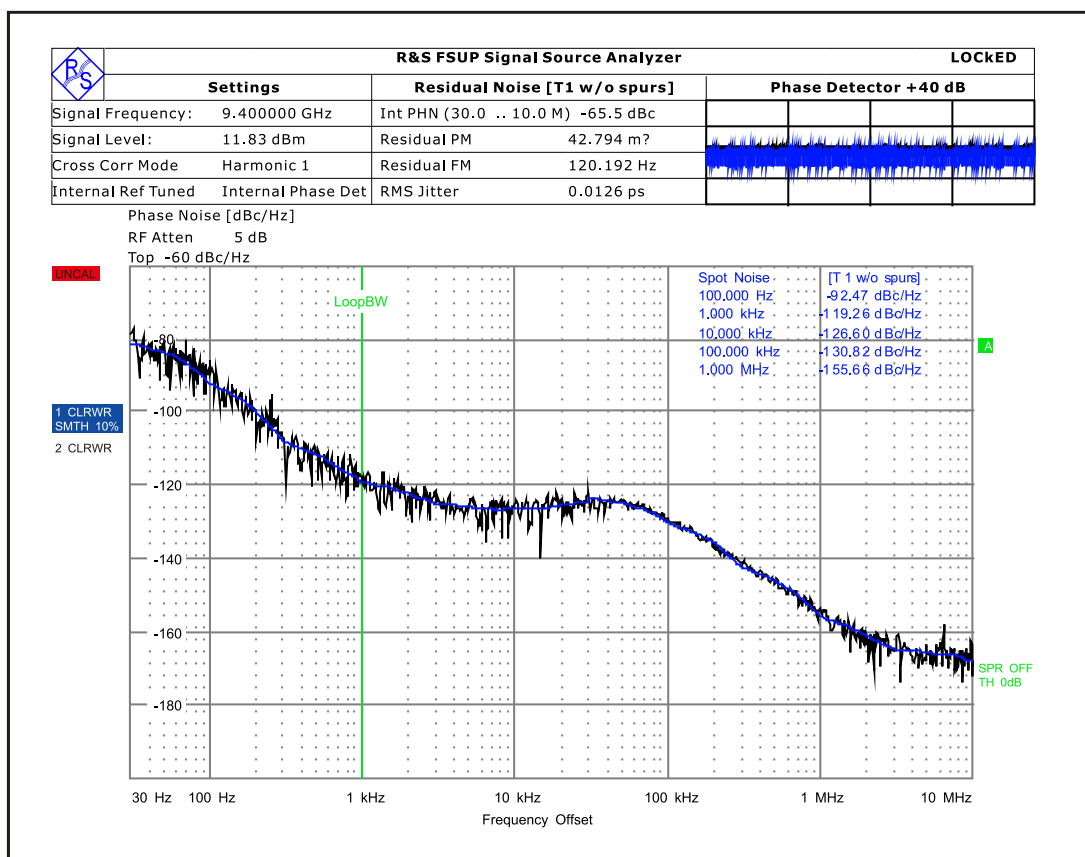


MODEL	PDRO38	PDRO50	PDRO57
Frequency Range ( GHz )	1~9	1~16	16~32
Power(dBm)	≥13	≥13	≥13
Ref input frequency/ phase-noise	100MHz/-157dBc/Hz@1kHz		
Ref input frequency power ( dBm )	+3~+10		
System phase-noise floor	-140dBc/Hz@100Hz		
	-158dBc/Hz@1kHz		
	-165dBc/Hz@10kHz		
	-165dBc/Hz@100kHz		
Phase Noise	As the sheet		
Spur ( dBc ) ★	≥70		
Harmonic ( dBc )	≥20		
Power consumption ( V/mA )	≤+12/280		
Lock detect output	TTL high as locked		
Operate temp ( °C )	-40~+85		
Storage temperature ( °C )	-55~+95		
Size ( mm )	38.0×38.0×15.7	50.8×47.8×15.7	57.2×57.2×15.7

### Phase Noise

Frequency	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	-138
Frequency	17	18	20	22	24	26	28	30	32
dBc/Hz@100Hz	-83	-83	-80	-80	-80	-80	-78	-78	-78
dBc/Hz@1kHz	-108	-108	-104	-104	-104	-102	-102	-96	-96
dBc/Hz@10kHz	-114	-114	-113	-112	-112	-110	-110	-99	-99
dBc/Hz@100kHz	-114	-114	-113	-112	-112	-110	-110	-104	-104
dBc/Hz@1MHz	-138	-138	-136	-136	-135	-134	-133	-132	-132

★ 1/2 harmonic spur » -60dBc when output frequency is 16~32GHz



Dimension with inner Ref

<p>PDRO50</p>	
<p>PDRO57</p>	

Dimension with external Ref

<p>PDRO38</p>	
<p>PDRO50</p>	
<p>PDRO57</p>	

### Ordering Information

<u>PDROXX-XXXX-100-E/I-13</u> ①      ②      ③      ④      ⑤	Part Number	Description		
		Model	Size	Frequency range
	①	PDRO38	38.0*38.0*15.7	1~9GHz
		PDRO50	50.8*47.8*15.7	1~16GHz
		PDRO57	57.2*57.2*15.7	1~32GHz
	②	Output frequency of PDRO		
		Output frequency must be integer multiple of Ref		
	③	Ref frequency : 80MHz/100MHz/120MHz		
		Ref mode		
	④	E:external ref;I : inner ref		
		Output power of PDRO		
	⑤	output power selection range : 3~13dBm		