

PDRO57V

Anti-vibration type

Features

- High frequency up to 16GHz
- Low phase-noise under vibration conditions
- Low power consumption

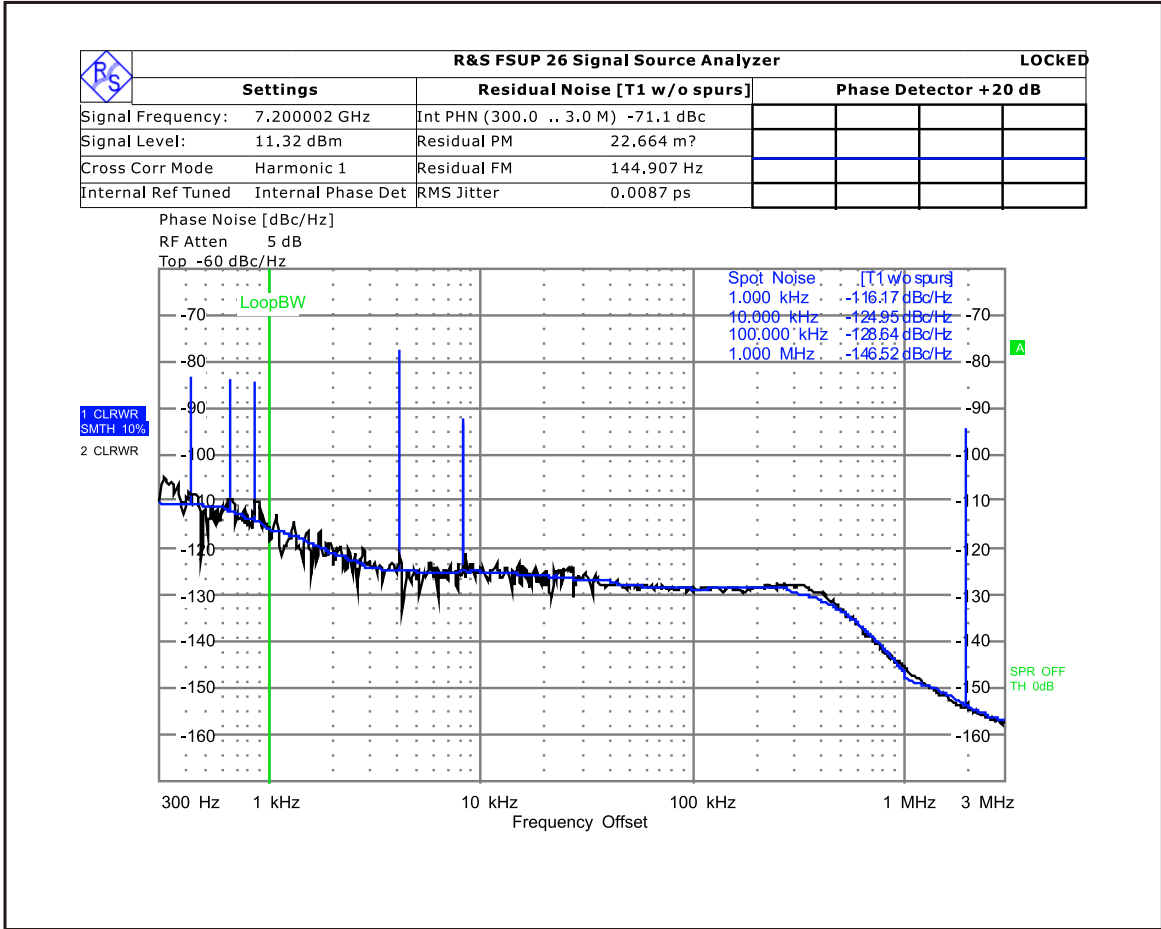
Model	AV57
Frequency Range (GHz)	1~16
Power (dBm)	≥7
Ref input frequency/ phase-noise	100MHz/-157dBc/Hz@1kHz
Ref input power (dBm)	+5~+10
System phase-noise floor	-140dBc/Hz@100Hz
	-158dBc/Hz@1kHz
	-165dBc/Hz@10kHz
	-165dBc/Hz@100kHz
Phase-noise without vibration	As the sheet
Spur (dBc) ★	≥70
Harmonic (dBc)	≥20
Phase-noise under vibration conditions	According to customer's technical requirement
Spur (dBc)	According to customer's technical requirement
Harmonic (dBc)	According to customer's technical requirement
Power consumption (V/mA)	+12/280
Lock detect output	TTL high as locked
Operate temperature (°C)	-40~+85
Storage temperature (°C)	-55~+95
Size (mm)	57.2×57.2×15.7

Phase Noise

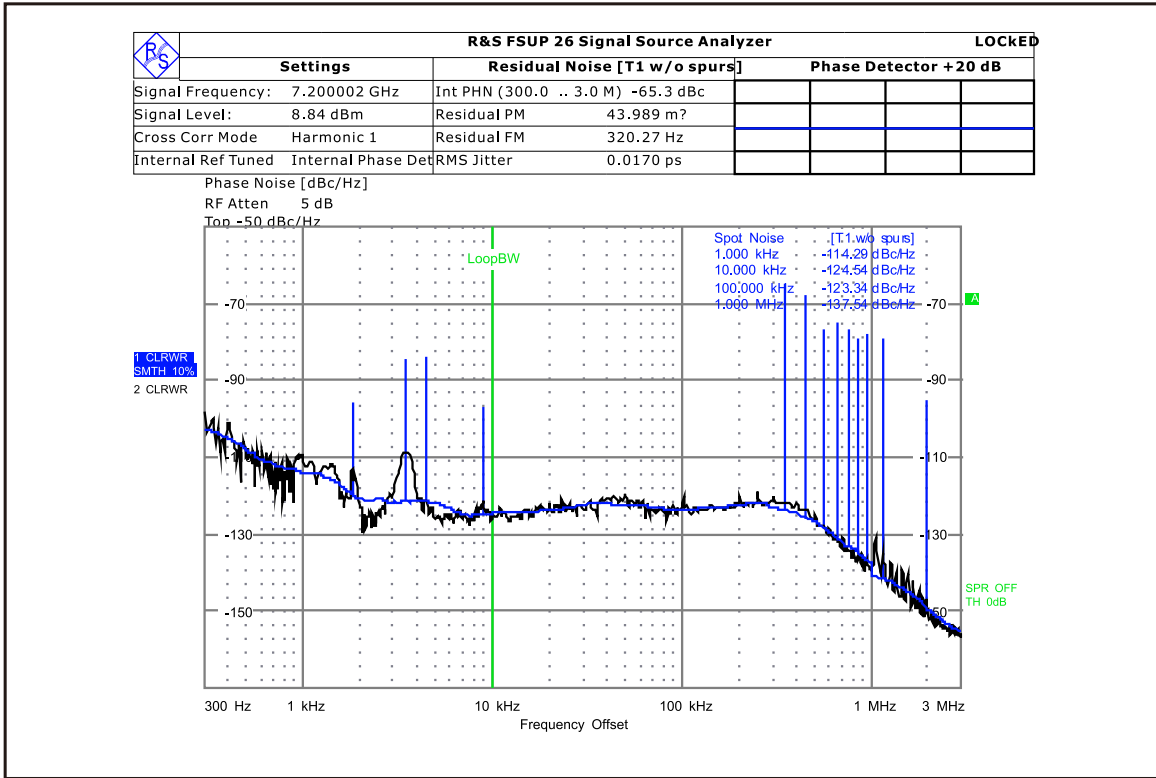
Frequency(GHz)	1	2	4	6	8	10	12	14	16
dBc/Hz@100Hz	108	102	-96	-92	-92	-88	-88	-86	-83
dBc/Hz@1kHz	-133	-126	-120	-116	-115	-113	-110	-108	-102
dBc/Hz@10kHz	-135	-131	-126	-120	-120	-120	-118	-118	-105
dBc/Hz@100kHz	-135	-131	-126	-120	-120	-120	-120	-118	-110
dBc/Hz@1MHz	-140	-140	-140	-140	-140	-140	-140	-140	-138

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

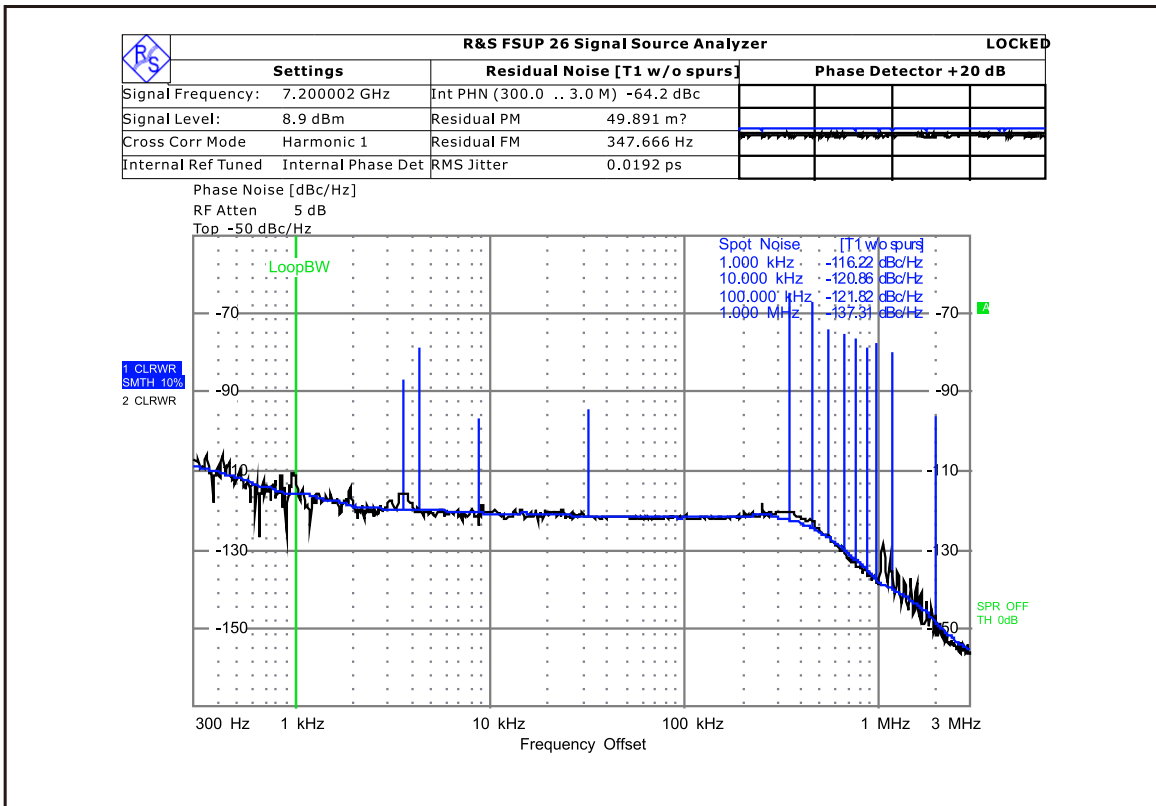
Stationary State



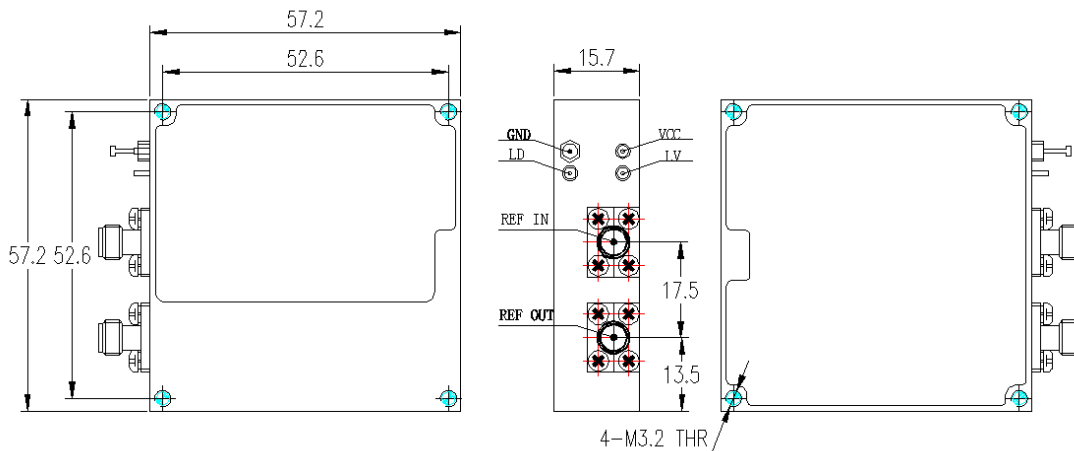
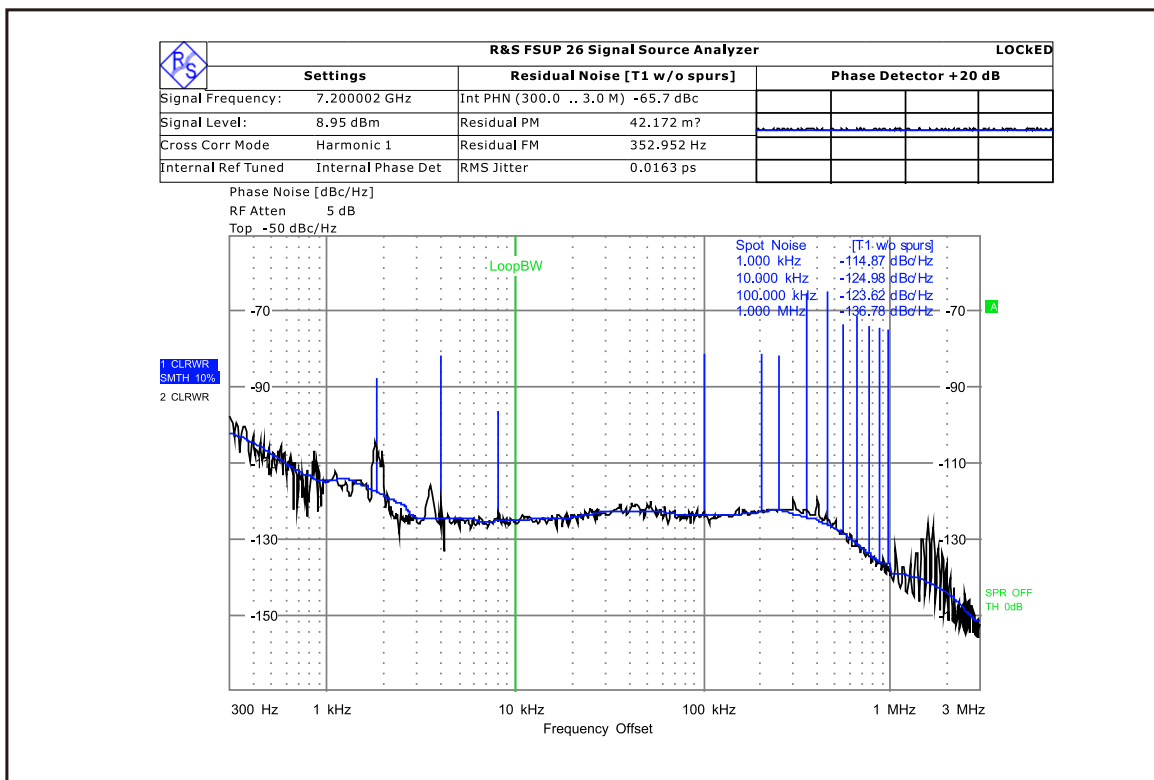
test under x axis vibration



test under y axis vibration



test under z axis vibration



Ordering Information

PDRO57V-XXXXXX-E-13	Part Number	Description
① ② ③ ④	①	PDRO57V model PDRO
	②	Customized design number
	③	External or internal ref selection
	④	PDRO output power level