

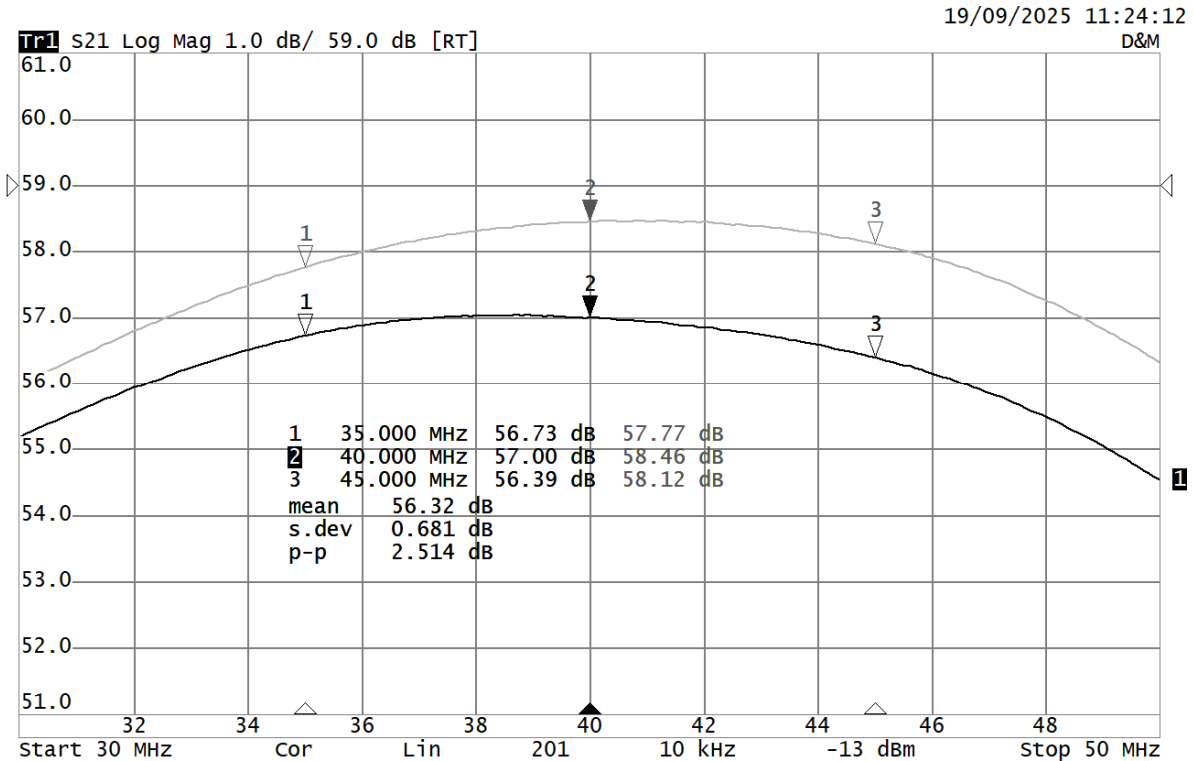
PA-35M45M-55-50W

Part Number:
PA-35M45M-55-50W

electrical specifications		DB15 – pin 1, 3, 5, 6, 8, 9, 11, 13 : NC DB15 – pin 2, 4, 7, 10, 12, 14: GND DB15 – pin 15: Thermoswitch state output (0V=open, 4V=close)		
	Measuring conditions	Specifications	Measured	Units
Measuring operation : +24V Power Supply Min: +22V Power Supply ; Max: +32V Power Supply				
Frequency Range	$T^{\circ} amb$	35 – 45	35 - 45	MHz
Burn in	$T^{\circ} amb$	12	> 12	h

24 V

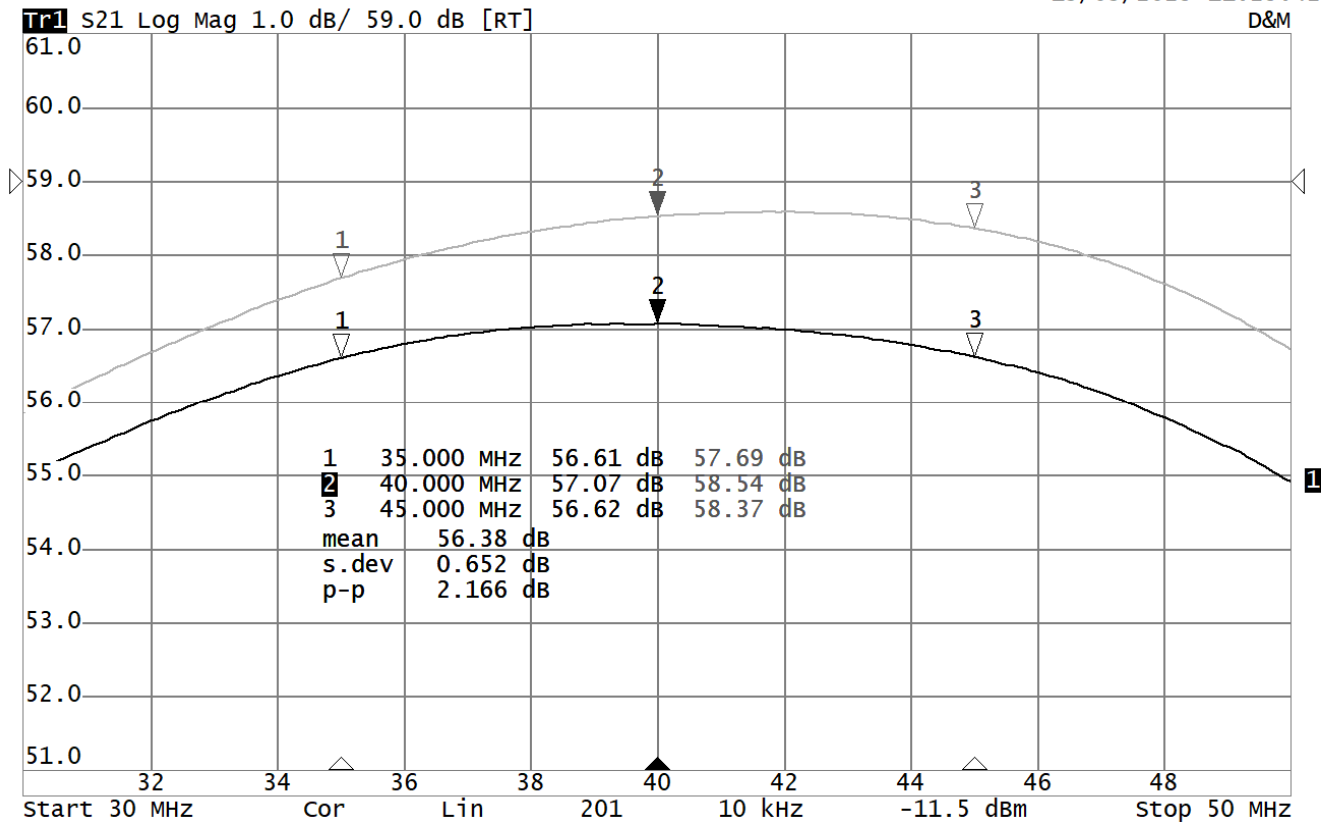
	Measuring conditions	Specifications	Measured	Units
Minimum RF OUT power	@P1dB	44 typ.	44	dBm
Gain	35 – 45 MHz @P1dBm	≥ 55	>56	dB
Current RF off	24V	< 4.0	3,3	A
Current RF on	44dBm	< 4.5	3,4	A



28 V

	Measuring conditions	Specifications	Measured	Units
Minimum RF OUT power	@P1dB	44 typ.	45	dBm
Gain	35 – 45 MHz @P1dBm	≥ 55	56	dB
Current RF off	28V	< 4.0	3,4	A
Current RF on	44dBm	< 4.5	3,6	A

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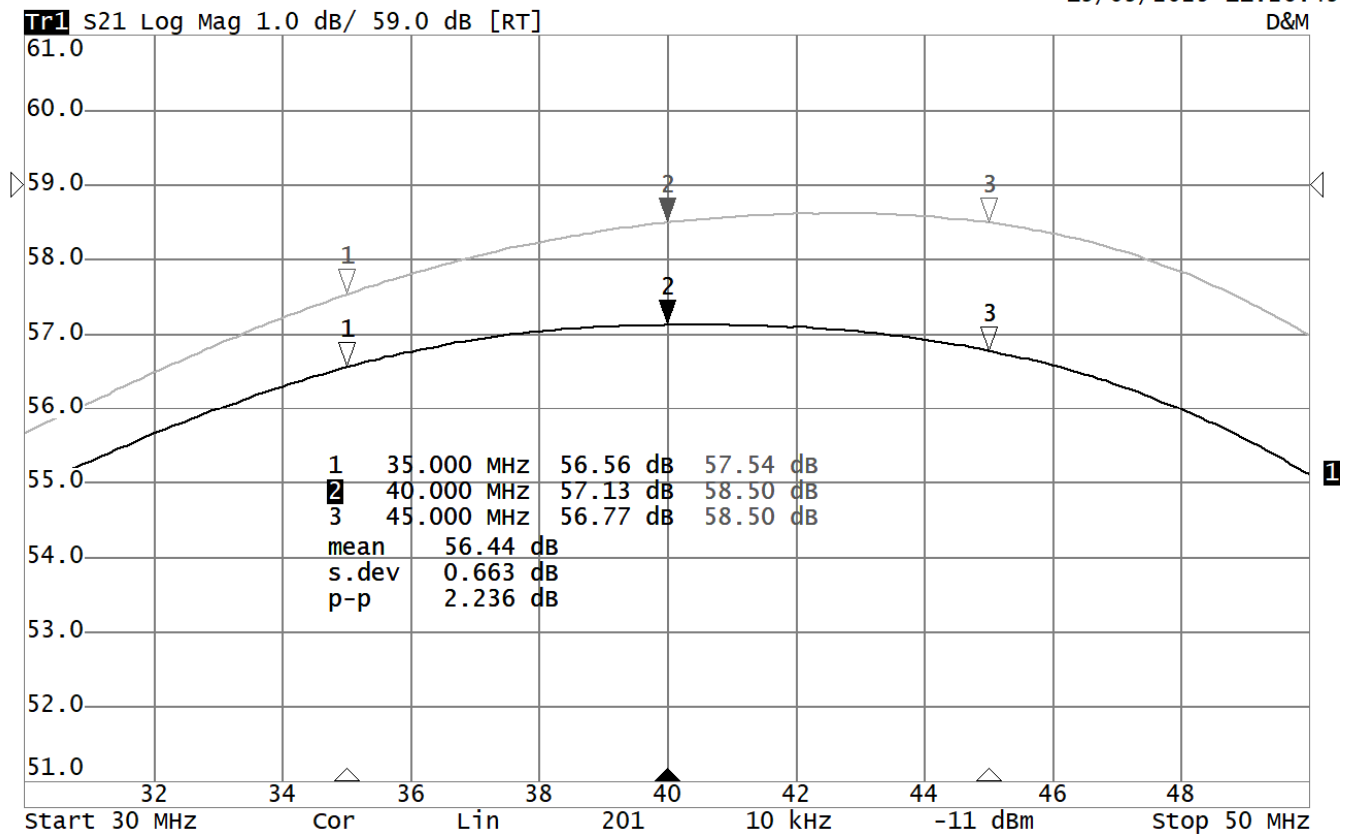


PA-35M45M-55-50W

30 V

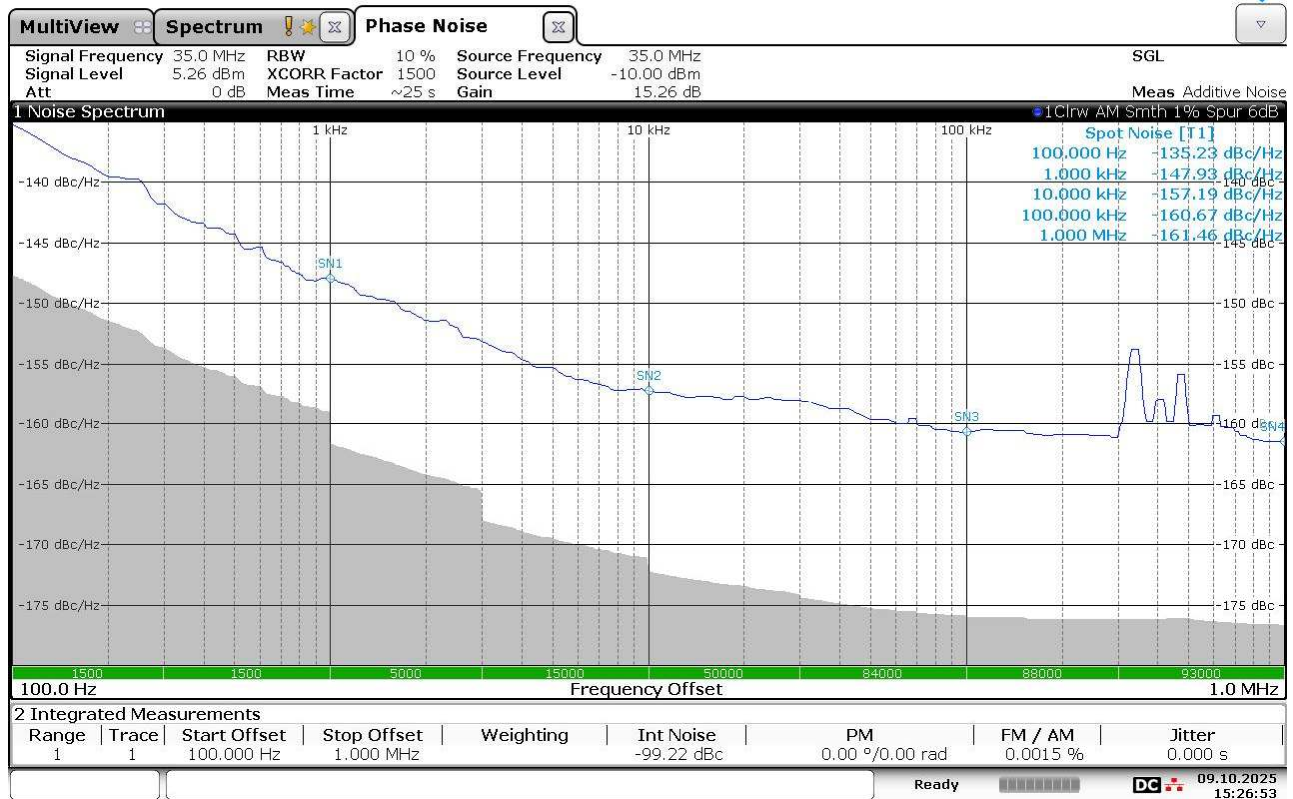
	Measuring conditions	Specifications	Measured	Units
Minimum RF OUT power	@P1dB	45 typ.	45	dBm
Gain	35 – 45 MHz @P1dBm	≥ 55	> 56	dB
Current RF off	30V	< 4.0	3,4	A

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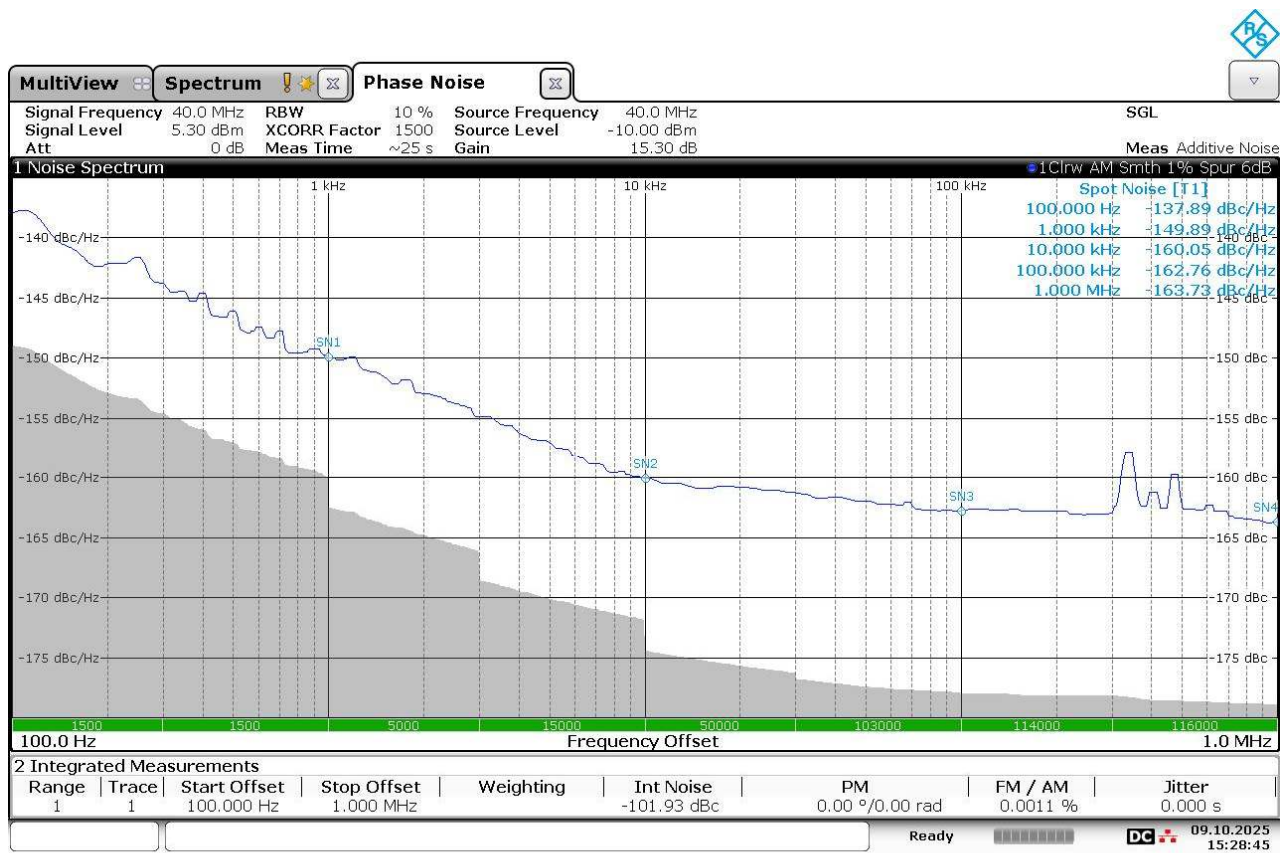
Additive Phase Noise at 35MHz

	Measuring conditions	Specifications	Measured	Units
Minimum RF OUT power	@P1dB	44 typ.	44	dBm
Gain	35 MHz @P1dBm	≥ 55	>56	dB
Current Consumption	24V	< 4.0	3,575	A



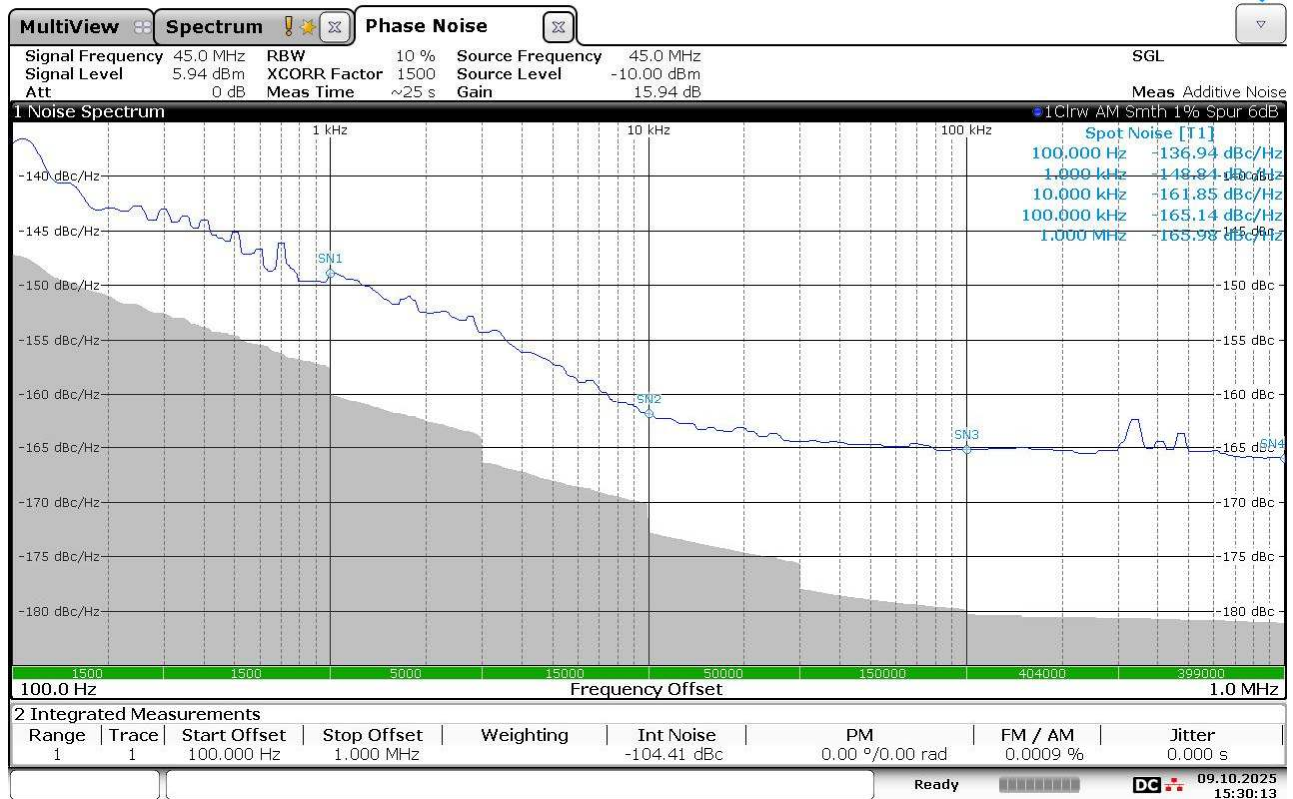
Additive Phase Noise at 40MHz

	Measuring conditions	Specifications	Measured	Units
Minimum RF OUT power	@P1dB	44 typ.	44	dBm
Gain	40 MHz @P1dBm	≥ 55	>56	dB
Current Consumption	24V	< 4.0	3,383	A

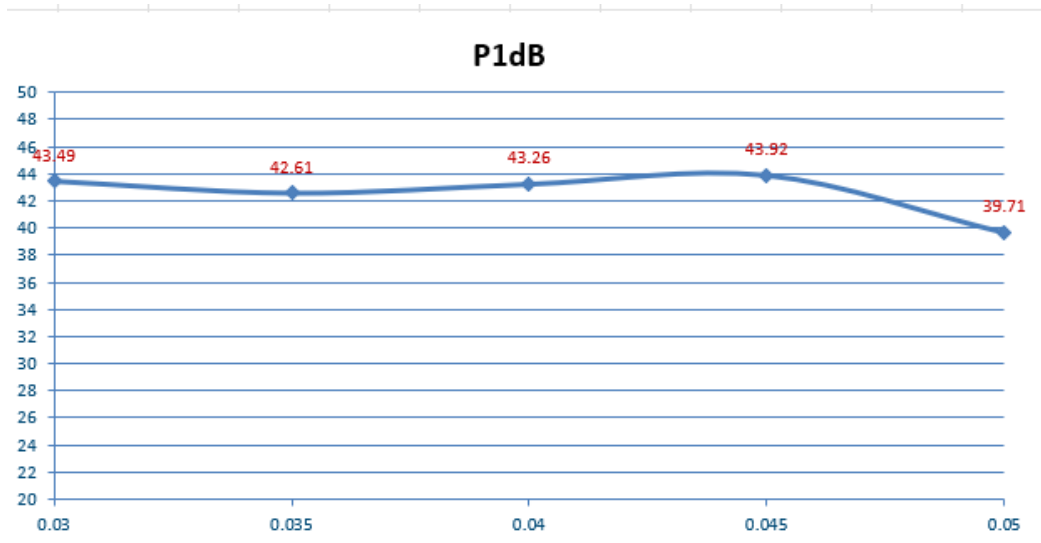
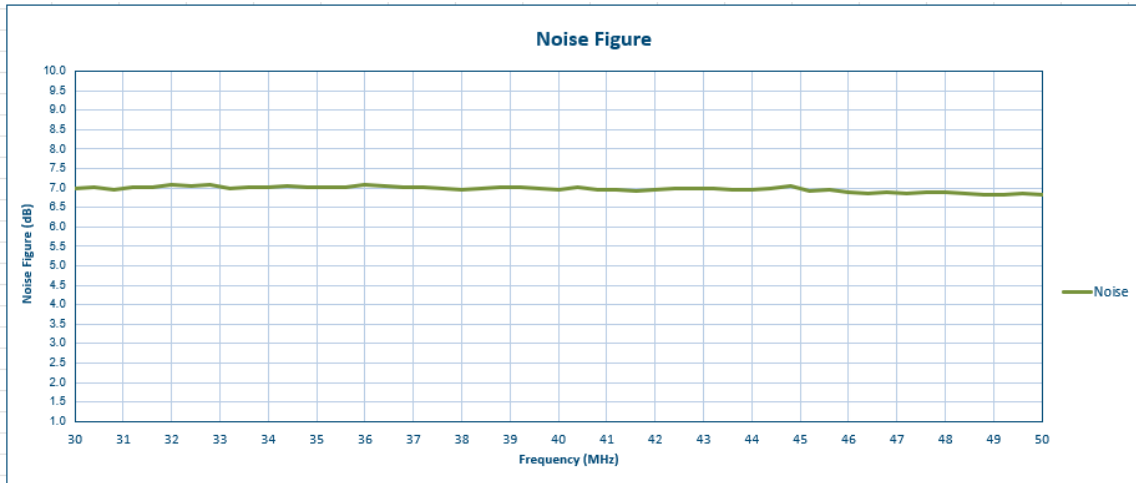
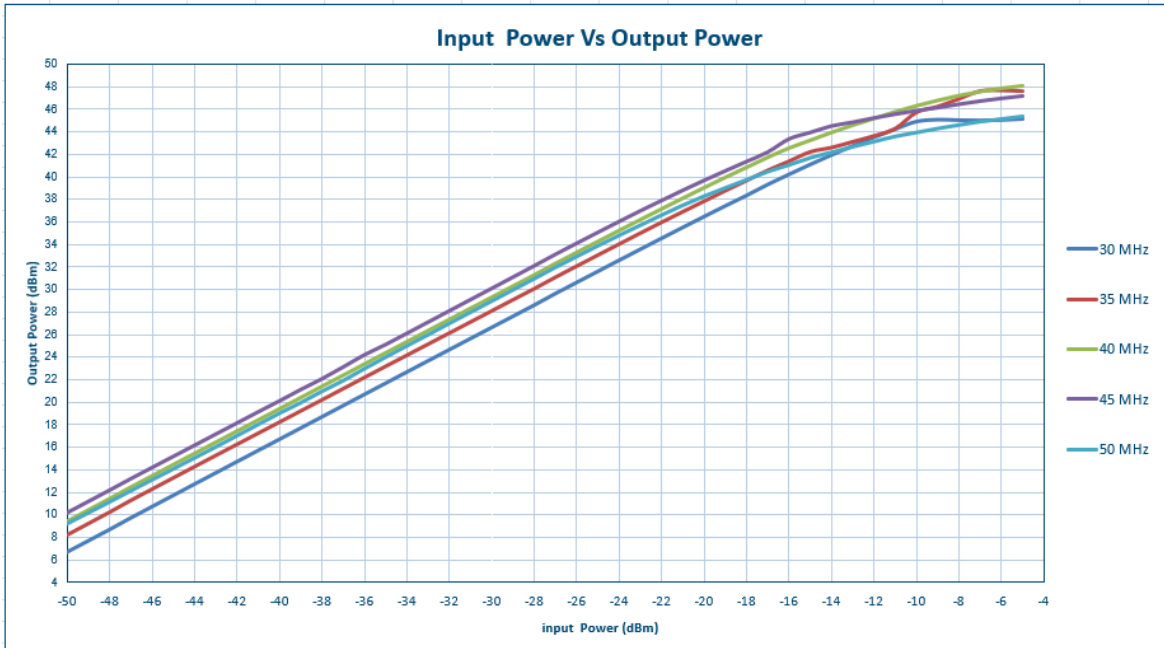


Additive Phase Noise at 45MHz

	Measuring conditions	Specifications	Measured	Units
Minimum RF OUT power	@P1dB	44 typ.	44	dBm
Gain	45 MHz @P1dBm	≥ 55	>56	dB
Current Consumption	24V	< 4.0	3,280	A



PA-35M45M-55-50W



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Conclusions: The additive AM noise levels of the PA-35M45M-55-50W power amplifier may be better than the measurement capability of the FSWP. However, due to receiver sensitivity limitations, it is not possible to accurately measure this performance. Although the specified target at 100 Hz offset is -145 dBc/Hz, the measurable value remains approximately 10 dB above this limit.

Note: Please check the FSWP specifications for additive AM noise measurement sensitivity limits as shown below. It indicates that the PA-35M45M-55-50W amplifier’s specification is at the sensitivity threshold of the FSWP.

AM noise sensitivity

Start offset 1 Hz, correlations = 1, signal level ≥ 10 dBm⁴, specified values in dBc (1 Hz), for typical values subtract 6 dB

RF input frequency	Offset frequency from the carrier								
	1 Hz	10 Hz	100 Hz	1 kHz	10 kHz	100 kHz	1 MHz	10 MHz	30 MHz
100 MHz $\leq f \leq$ 1 GHz	-105	-120	-135	-150	-158	-165	-165	-165	-165
1 GHz $< f \leq$ 12 GHz	-100	-115	-130	-145	-155	-160	-165	-165	-165
12 GHz $< f \leq$ 18 GHz	-90	-105	-120	-135	-150	-160	-165	-165	-165
18 GHz $< f \leq$ 33 GHz	-80	-95	-110	-125	-140	-150	-160	-165	-165
33 GHz $< f \leq$ 50 GHz	-70	-85	-100	-115	-130	-140	-150	-160	-160