



Wright Technologies Inc.

Broadband Frequency Operation

TECHNICAL DATA SHEET

RoHS COMPLIANT

ASL50-B3010

0001

FEATURES

- * 18-50 Ghz Frequency Operation
- * P-1dB: +10 dBm minimum
- * Small Signal Gain: 30-40 dB minimum
- * Gain Flatness: +/- 2.75 dB full band
- * High Output IP3: 20 dBm typ.
- * Noise Figure: 6.5 dB maximum
- * 50 Ohm Input and Output Matched
- * -20 to +85 °C Operating Temperature
- * Unconditionally Stable
- * Single DC Bias Supply
- * Built-in DC Voltage regulation
- * Small Size and Weight, Yet Robust

APPLICATIONS

Laboratory Applications
R&D Lab Use
Radar Systems
Electronic Warfare
Telecom Infrastructure

Test Instrumentation
Military and Space
Communications Systems
Satellite Communications
Wireless Communications

Microwave Radio Systems
Power Amplifier
General Purpose Amplifier
RF Front Ends
Fiber Optic Interface

Freq. In GHz	Gain dB	P-1 dBm	Input VSWR	Output VSWR	Noise dB
18.0	36.7	11.5	1.75	2.48	3.9
26.0	38.3	13.5	1.42	1.57	3.8
34.0	35.5	12.3	1.56	1.91	4.8
42.0	36.9	13.1	1.58	1.58	5.1
50.0	36.2	10.9	1.62	2.21	6.3
Min	35.3	10.9	---	---	---
Max	39.9	---	1.92	2.73	6.3
Spec	30-40	10 Min	2.75 Max	2.75 Max	6.5 Max

Bias @ +12.0 V, IT = $\frac{320}{300}$ mA
mA TYP

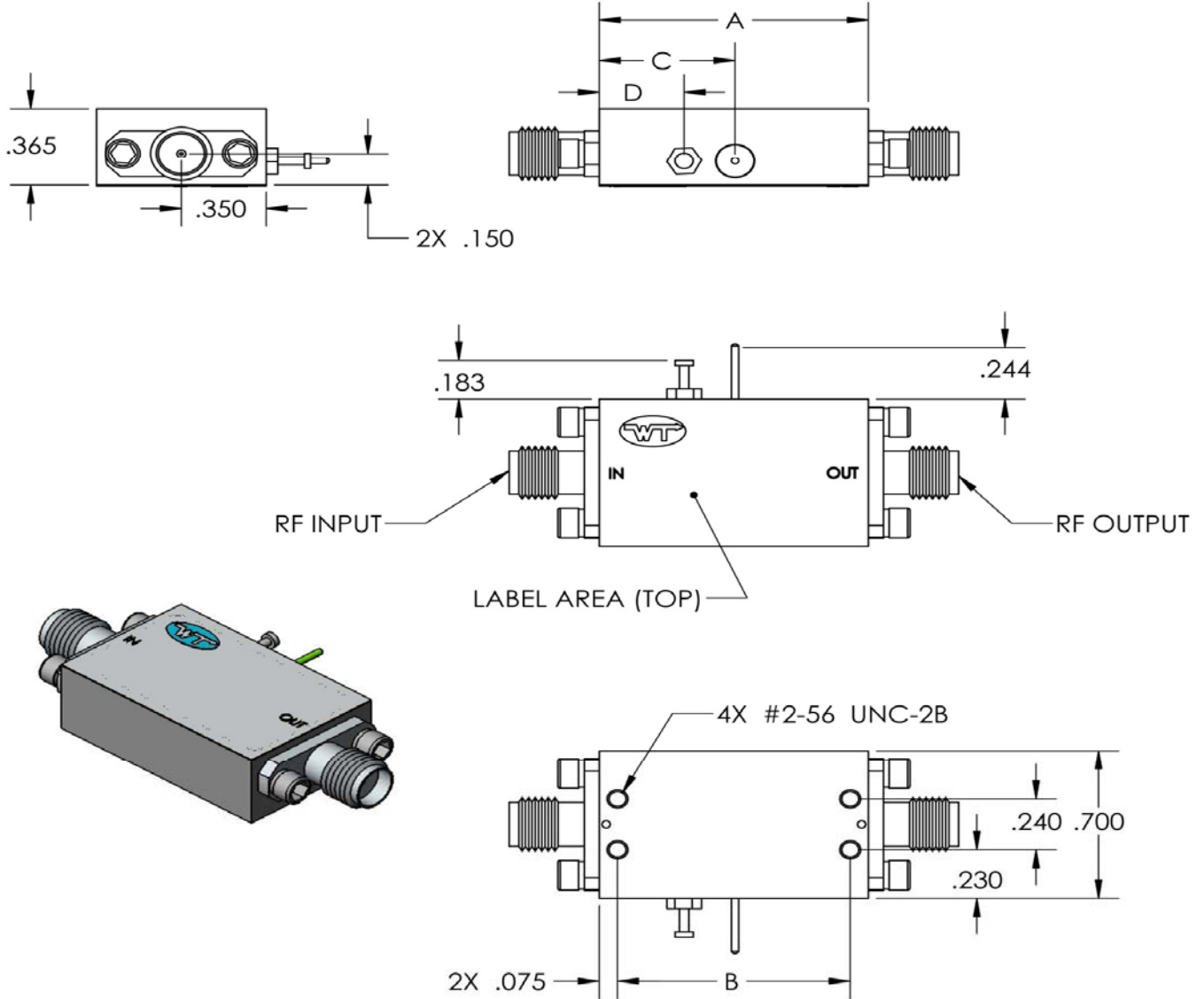
All Measurements Taken at 25°C Ambient Room

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ASL50-B3010
6VV TYPE CASE



COAX CONNECTOR OPTIONS:
 SMA, 2.9mm, 2.4mm

WAVEGUIDE OPTION AVAILABLE
 UPON CUSTOMER REQUEST

- APPLICATION NOTES:
 UNLESS OTHERWISE SPECIFIED
- 1) ALL DIMENSION TOLERANCES
 $\pm .010$ AFTER PLATING
 - 2) RF CONNECTORS ARE K FEMALE
 - 3) INTERPRET DRAWING PER ASME
 Y14.5M-1994

TYPE	A	B	C	D
3	.910	.760	.560	.350
4	1.110	.960	.560	.350
6	1.510	1.360	.960	.750
8	1.910	1.760	1.360	1.150

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TITLE

WT KK, VV SERIES



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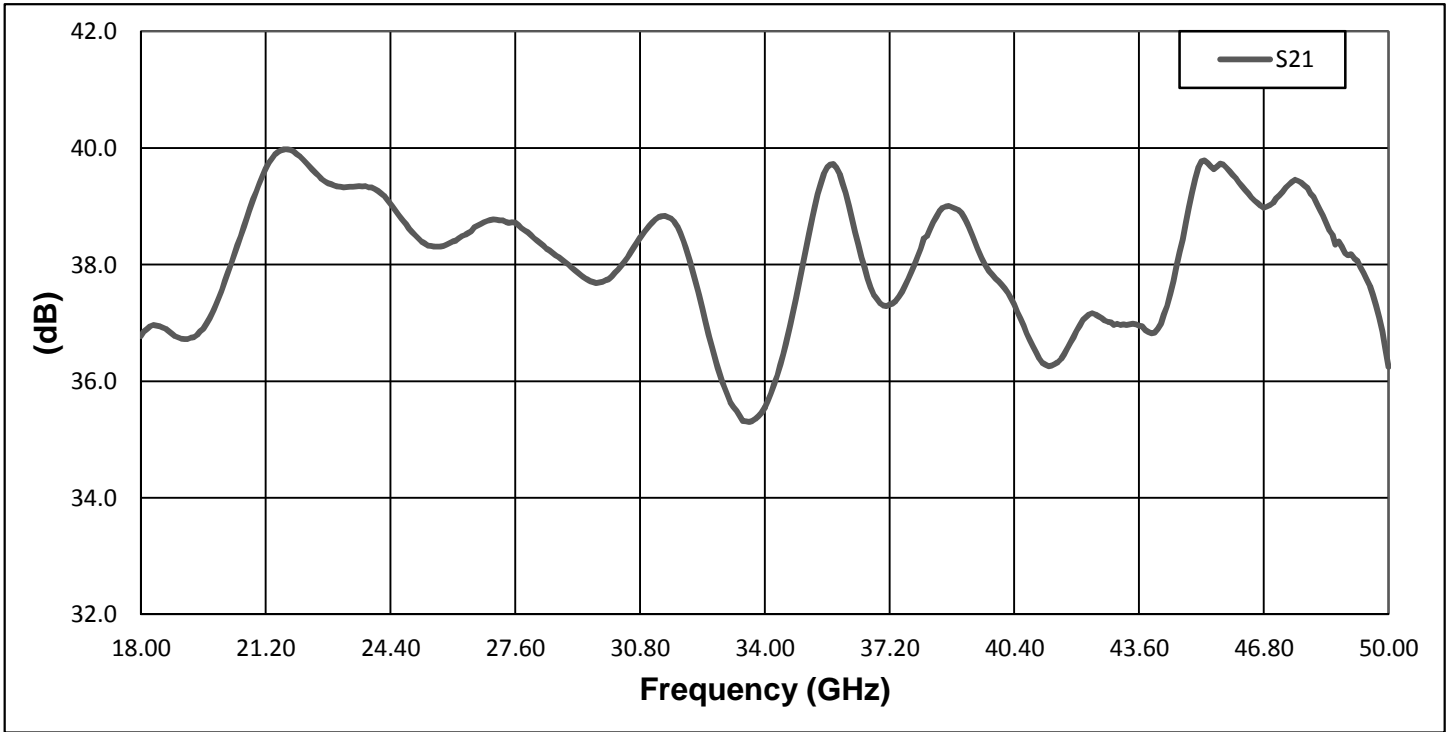
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DATA PLOTS

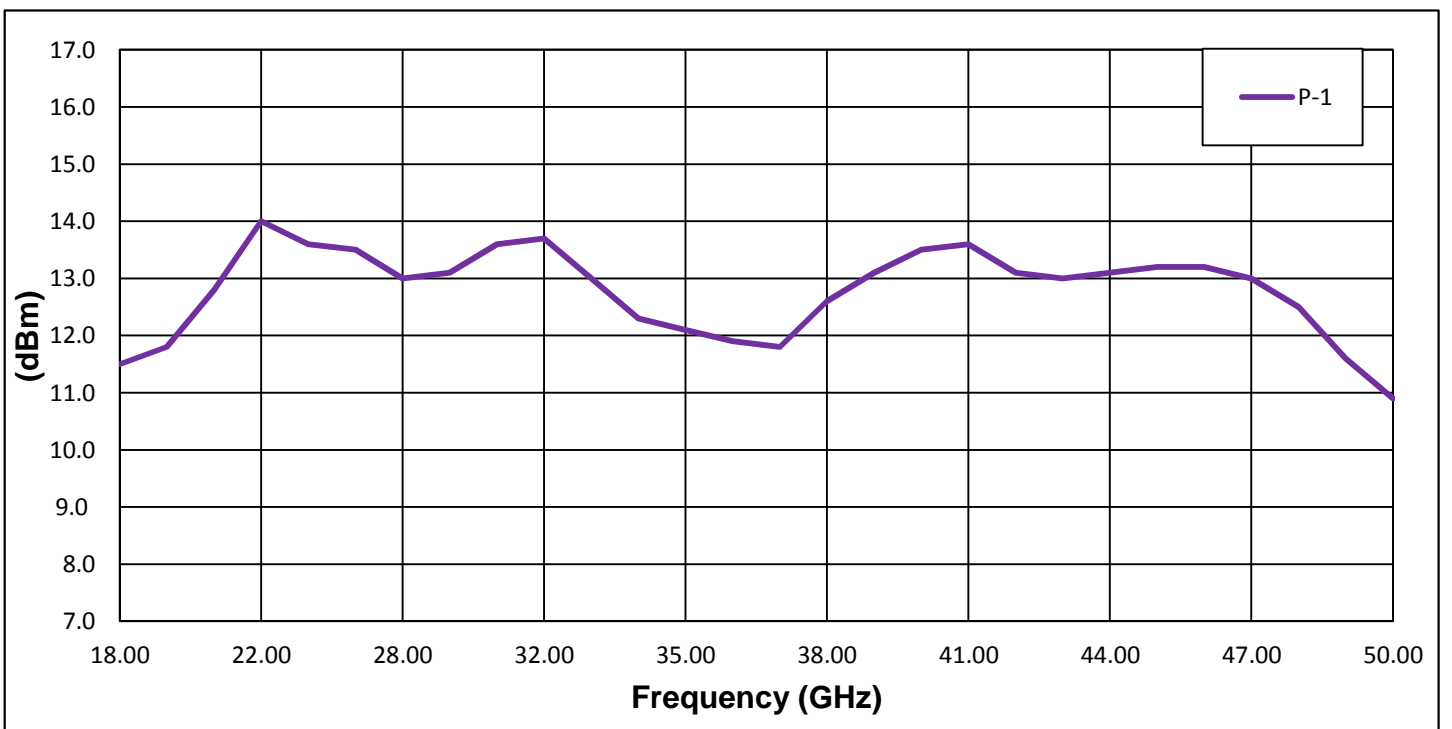
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Gain



Power dBm





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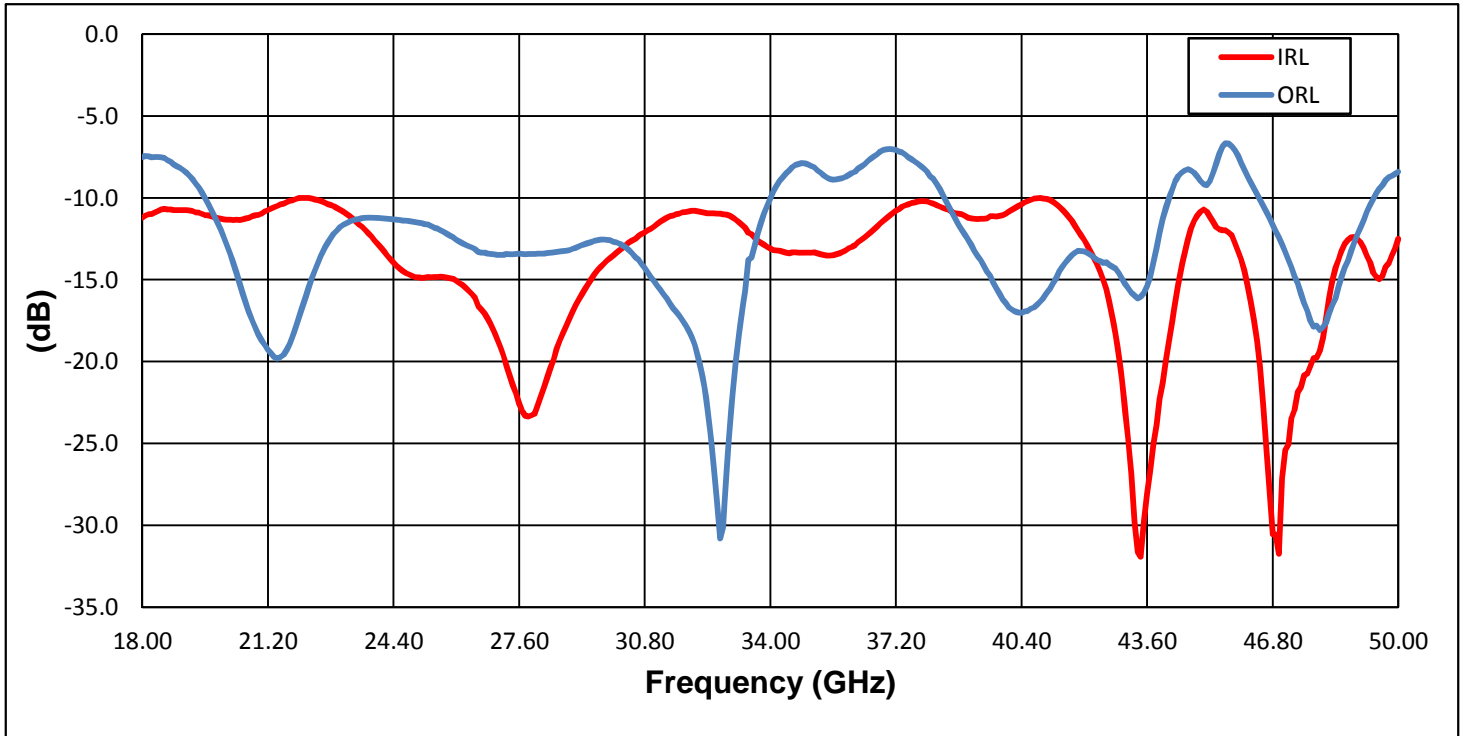
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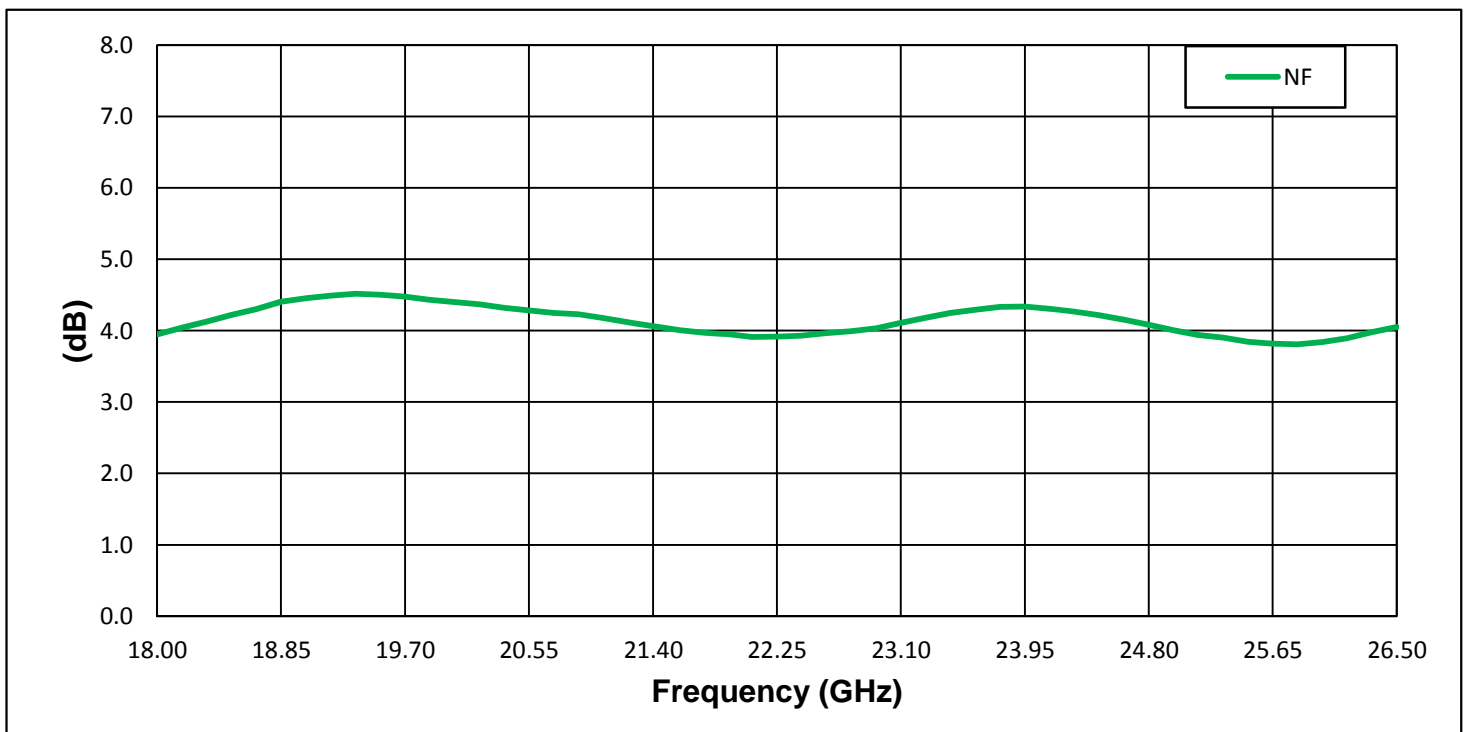
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Return Loss



Noise (18-26.5 GHz)





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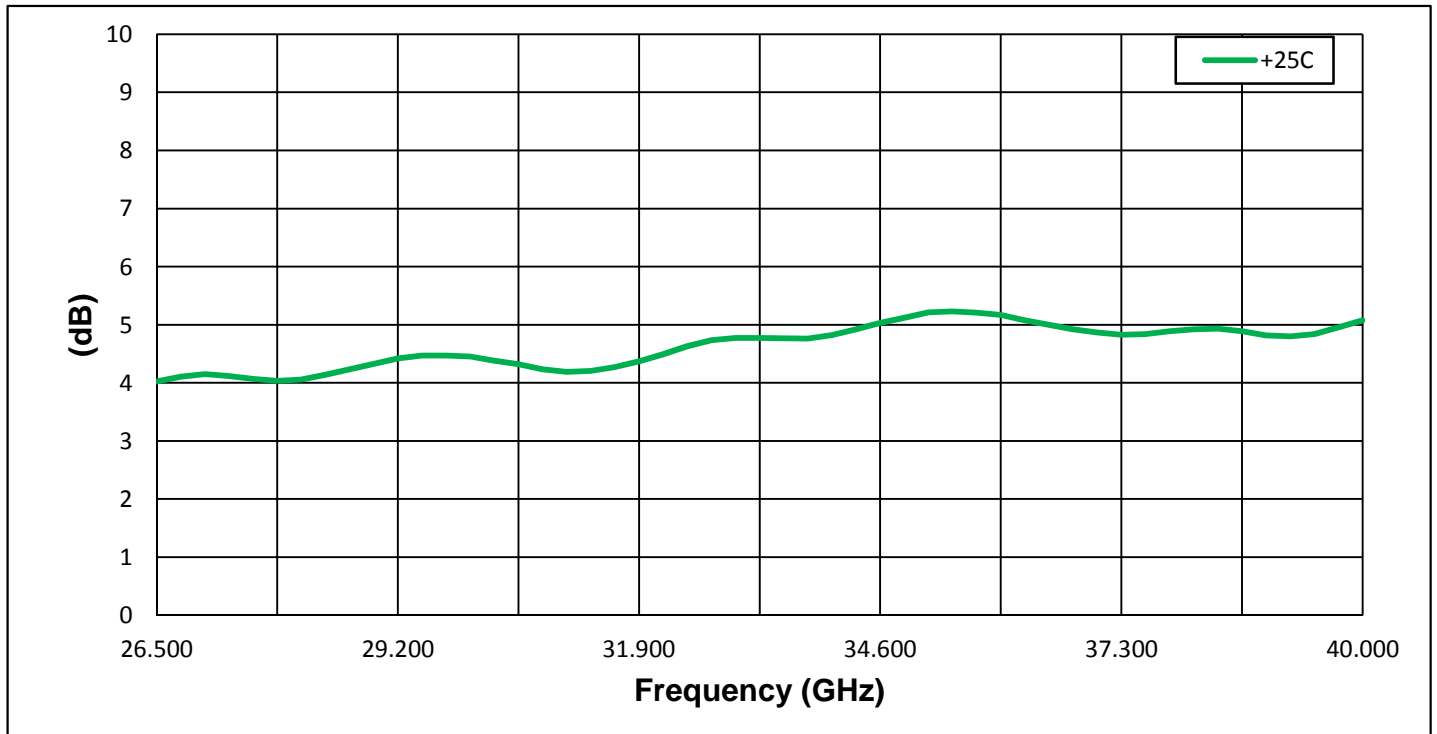
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Noise (26.5-40 GHz)



Noise (40-50 GHz)

