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Operational Manual

Low Noise Amplifier

QUALITY
ISO 9001:2015
NSAI Certified

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7. Technical Specifications

Table 1. Low Noise Amplifier Specifications

Model	Parameters													
	Operating Frequency (GHz)		Gain (dB)		Noise Figure (dB)		P_{1dB} (dBm)	S_{11} (dB)	S_{22} (dB)	DC Requirements (V/mA)			In/Out Connector Port	Dimensions LxWxH (mm)
	Min	Max	Min	Typ	Typ	Max	Typ	Typ	Typ	Min	Typ	Max	Typ	Typ
FLNA-42-0001	18	26.5	-	33	2.8	4	12	-10	-10	-	6/150	-	K (f)	54x30x11
FLNA-28-0001	26.5	40	-	25	3.5	5	10	-10	-10	-	6/150	-	K (f)	54x30x11
FLNA-15-0003	56	67	15	20	4.5	6.5	8	-10	-10	-	6/80	-	WR-15 UG385/U	37.5x20x20
FLNA-10-0006	75	110	15	20	4	6	-5	-6.5	-6.5	-	6/50	-	WR-10 UG387/ U-M	32x20x20
FLNA-10-0005	75	110	15	20	4	6	-5	-6.5	-6.5	-	6/50	-	WR-10 UG387/U-M	32x14x20
FLNA-06-0002	110	170	14	18	6	8	-5	-8	-10	5/20	6/30	9/40	WR-6 UG-387/U	31.5x20x22

Note:

. Min - Minimum

. Typ - Typical

. Max - Maximum

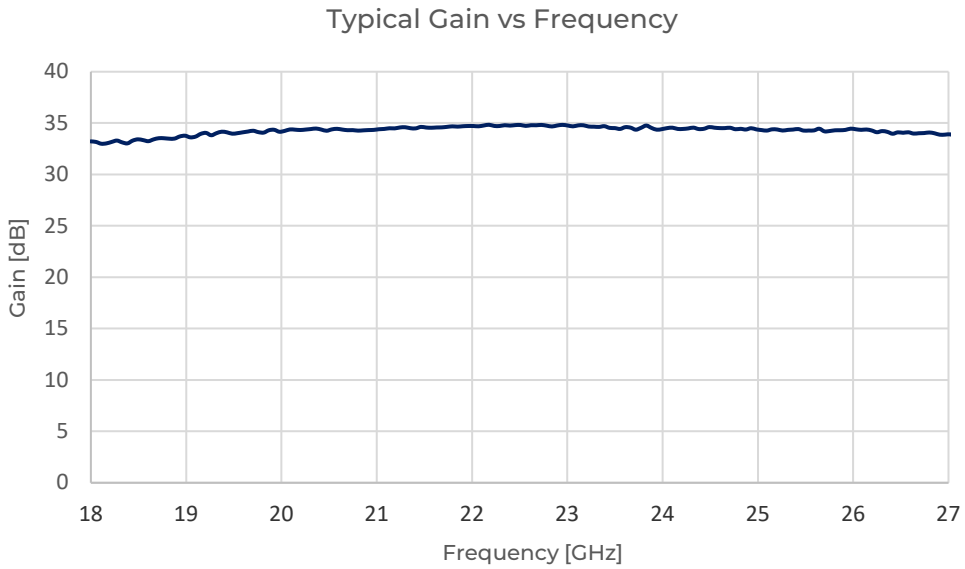
Specification Definitions

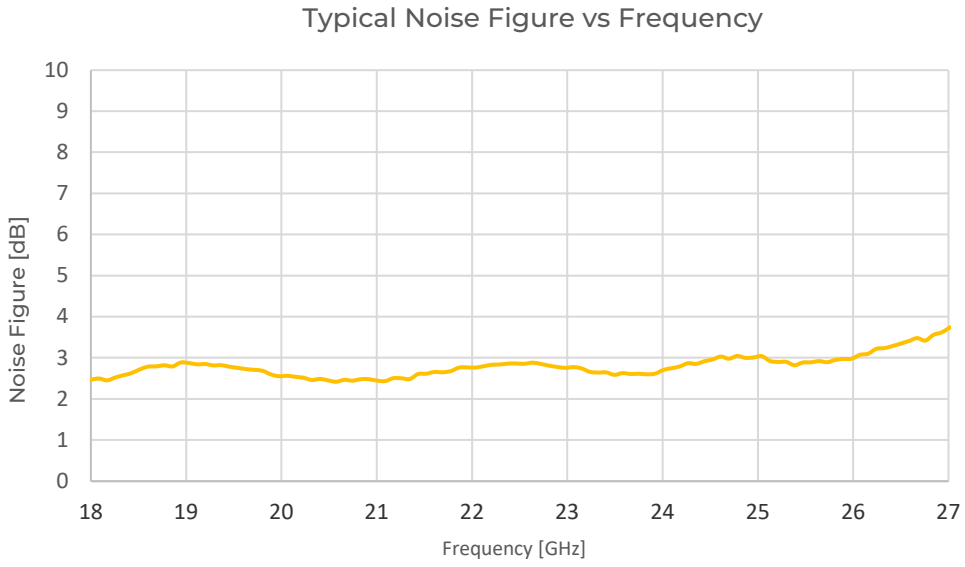
Nominal value (nom.) – ensured by design, not tested. **Measured value (min, max)** – expected and warranted product performance obtained from the actual measurements of product sample. **Non-traceable measured value (n. trc. meas.)** – expected product performance obtained from the actual measurements of a product sample by means of using Farran's own equipment and methods. Traceable only to Farran laboratory equipment. **Typical data (typ.)** – value that represents the product specification met over 90% of bandwidth or a mean value. **Specifications without limits** – represent the warranted product performance; with values of no or a negligible deviation from the given value and as such have a secondary impact on the product performance.

8. Typical Performance

Farran's Low Noise Amplifier perfomance plots are provided in this section, for all models. Unless otherwise stated, all perfomance data furnished here has been obtained from in-house measurements, at room temperature.

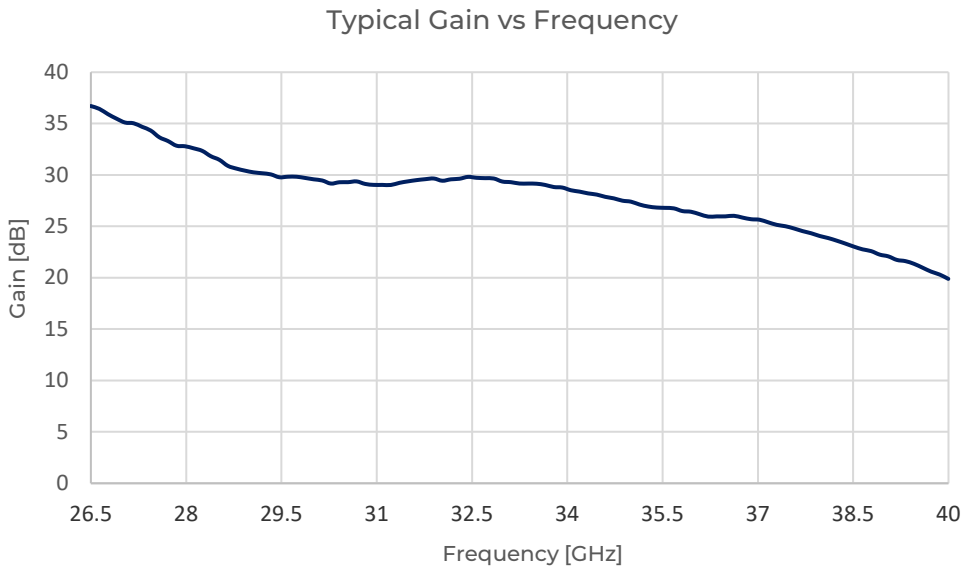
8.1 FLNA-42-0001

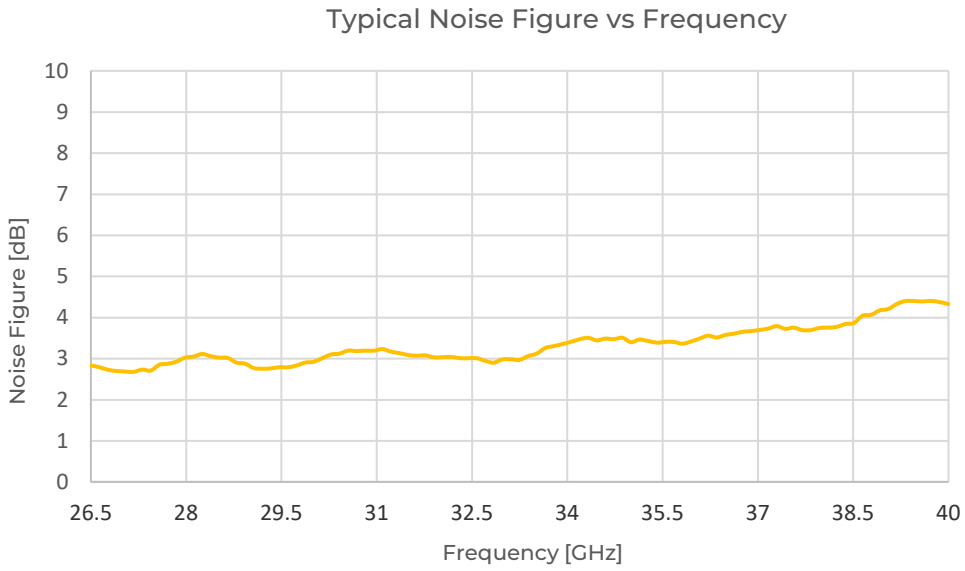




8. Typical Performance

8.2 FLNA-28-0001





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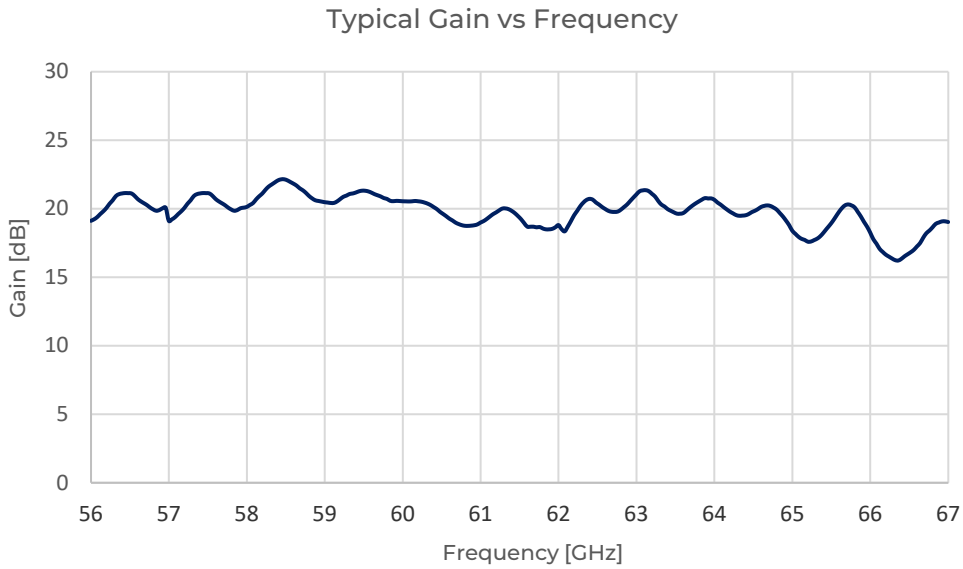
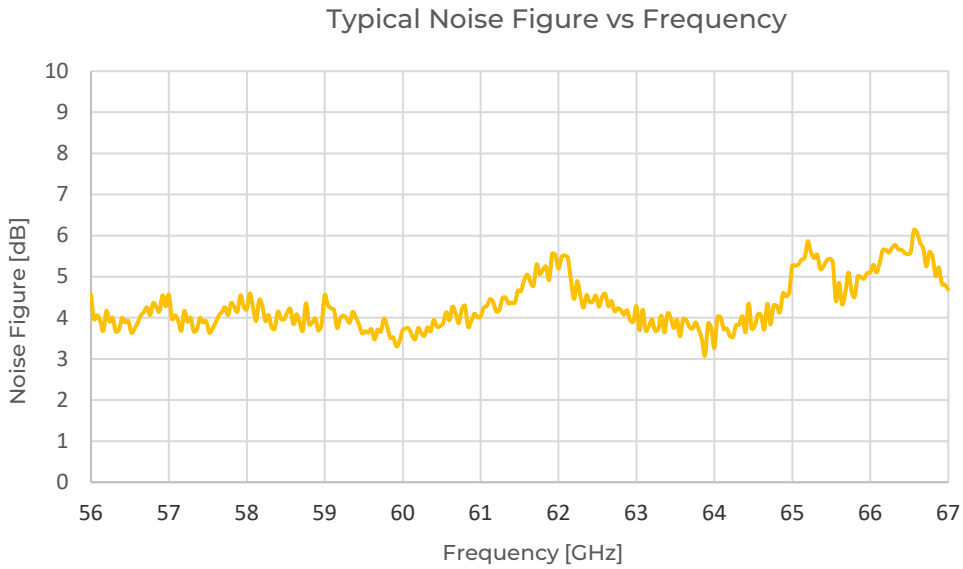
8. Typical Performance

8.3 FLNA-15-0003





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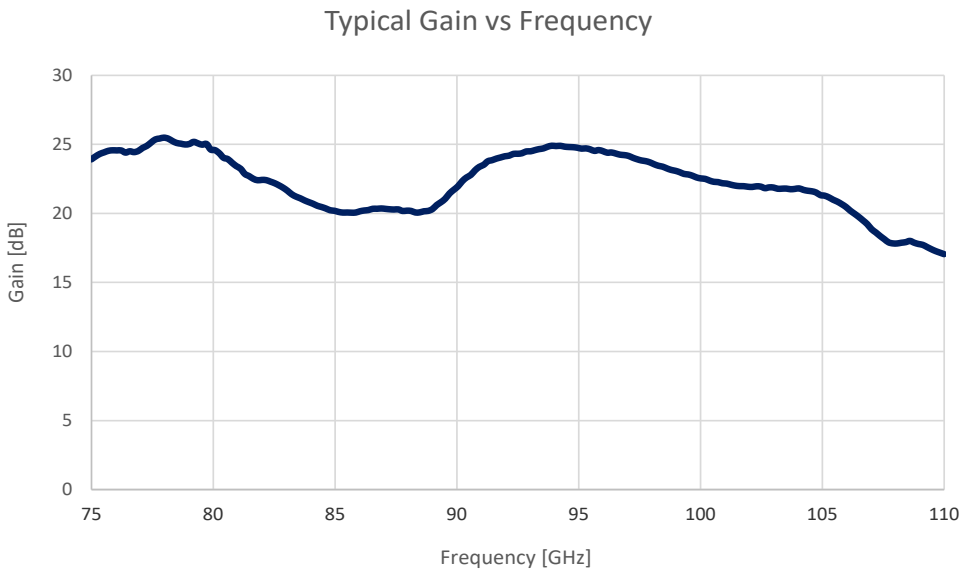
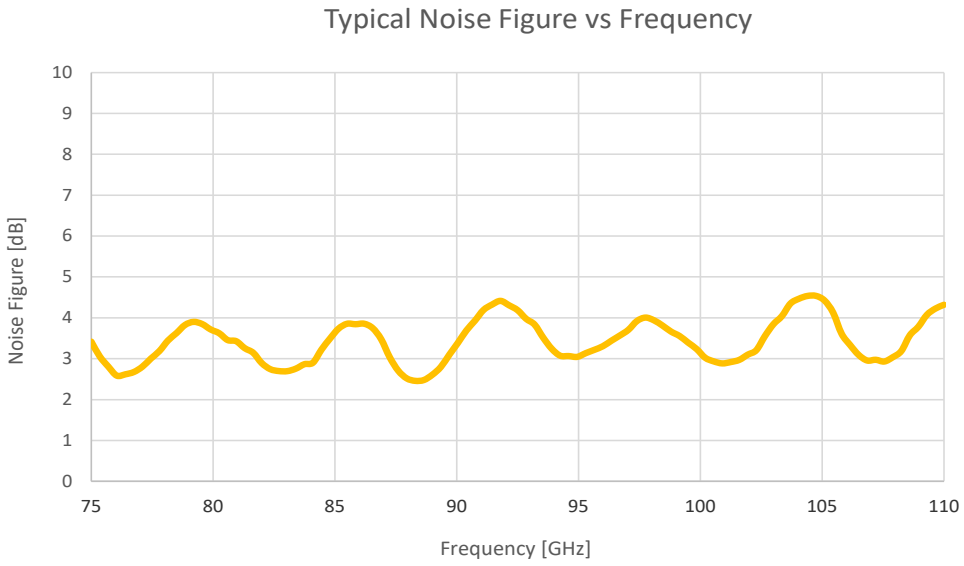
8. Typical Performance

8.4 FLNA-10-0006





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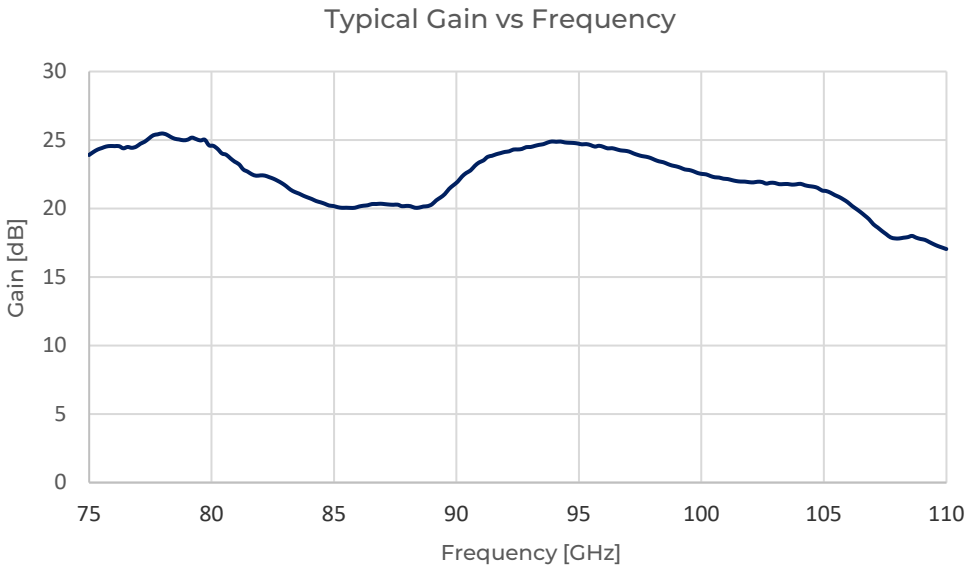
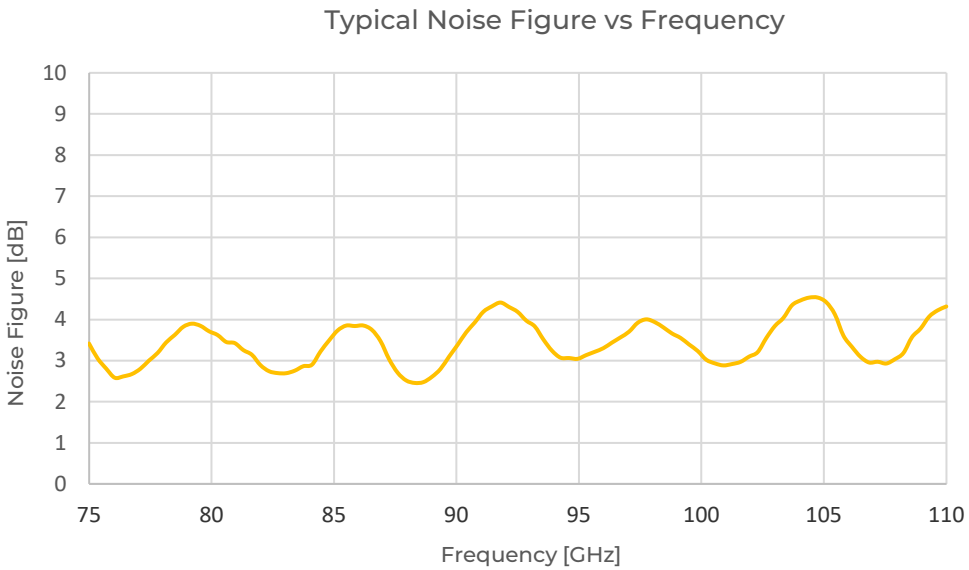
8. Typical Performance

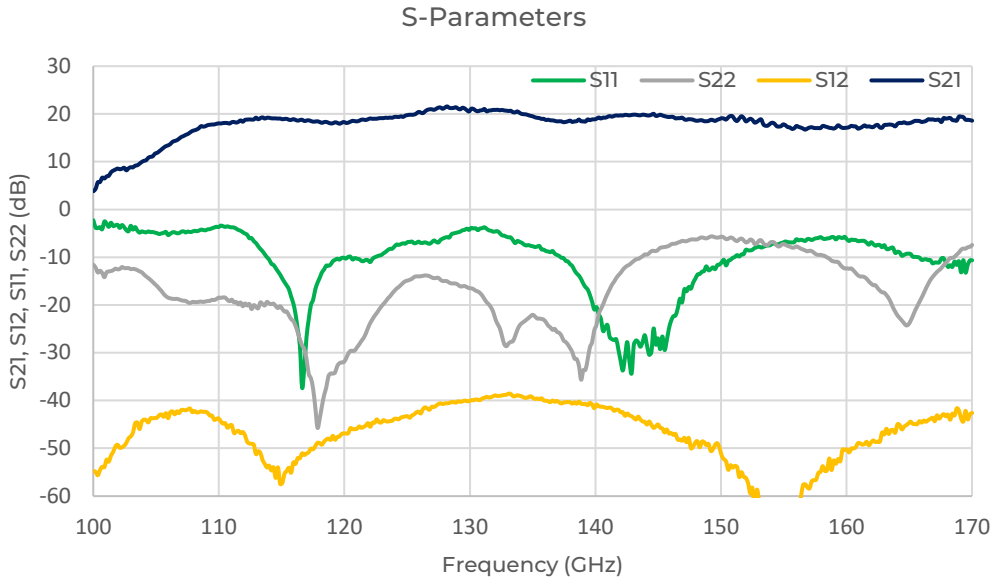
8.5 FLNA-10-0005

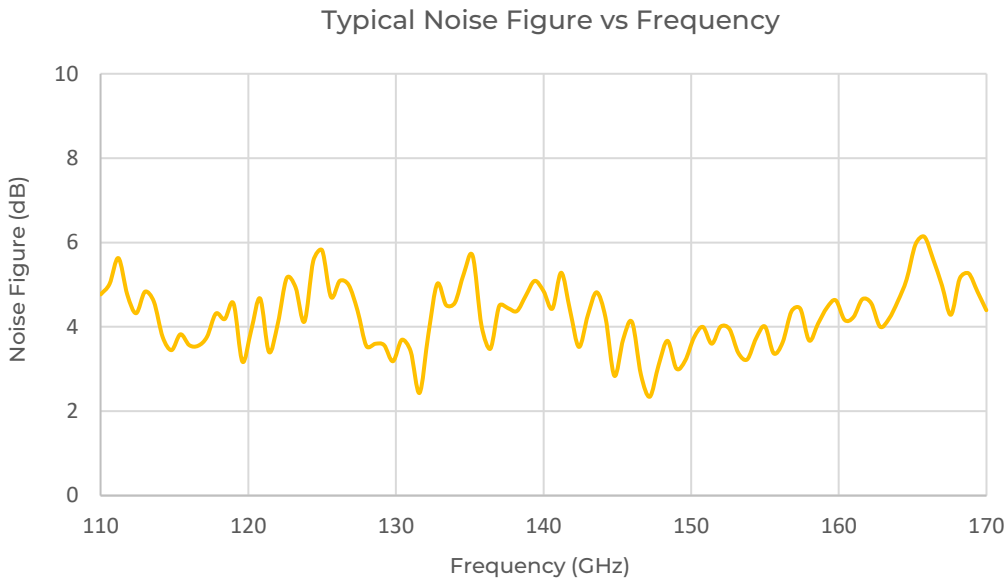




8. Typical Performance

8.6 FLNA-06-0002





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12. Appendices

12.1 Drawings