



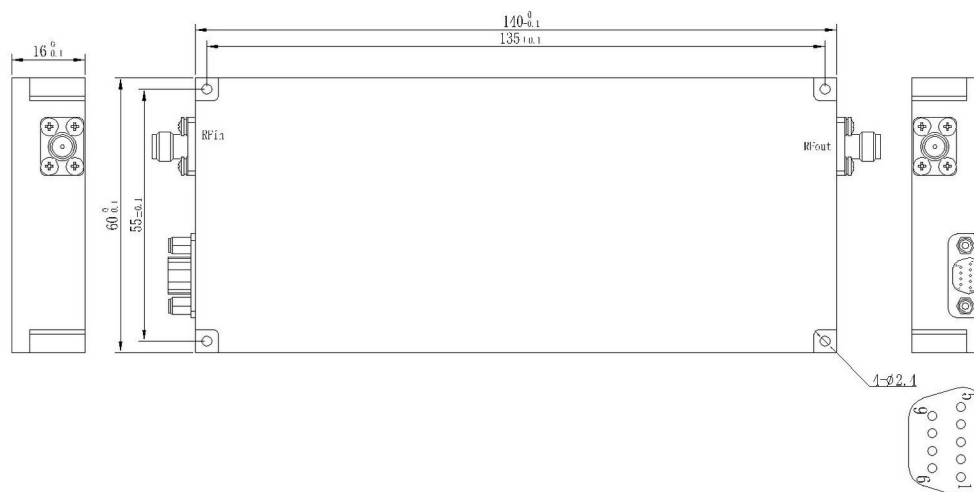
Specification – Active Filter-Amplifier Assembly

Date: 2026-09-06	Gain: 20–26 dB	Part No.: NX-AFA-500-2000-20G
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■ Electrical & Mechanical Specification

No.	Parameter	Specification
1	Frequency Bands	0.5 – 0.8 GHz (Band 1) 0.8 – 1.3 GHz (Band 2) 1.3 – 2 GHz (Band 3)
2	Rejection (each band, out-of-band)	≥65 dBc — see full band-by-band table
3	Switch Isolation	80 dB (design goal)
4	Output Power P1dB	22–26 dBm
5	Small Signal Gain	20–26 dB
6	Noise Figure	12 dB
7	VSWR (in/out)	2–2.5
8	Pass Band Ripple	1.0–2.0 dB
9	Switching Speed	200–300 ns
10	Power Supply	+12V, ≤0.8 A typ., ≤10 W
11	Connectors	SMA-Female (Stainless Steel)
12	Control / Power Interface	9-pin Micro-D (Female)
13	Operating Temperature	-40°C ~ +70°C
14	Storage Temperature	-55°C ~ +125°C
15	Dimensions	≤140 × 60 × 16 mm (excl. connectors)
16	Housing	Nickel-Plated Aluminum, Hermetically Sealed, Conformal Coating

■ Outline Drawing [Unit: mm]





■ Functional Block Diagram

1. Functional Block Diagram.

