



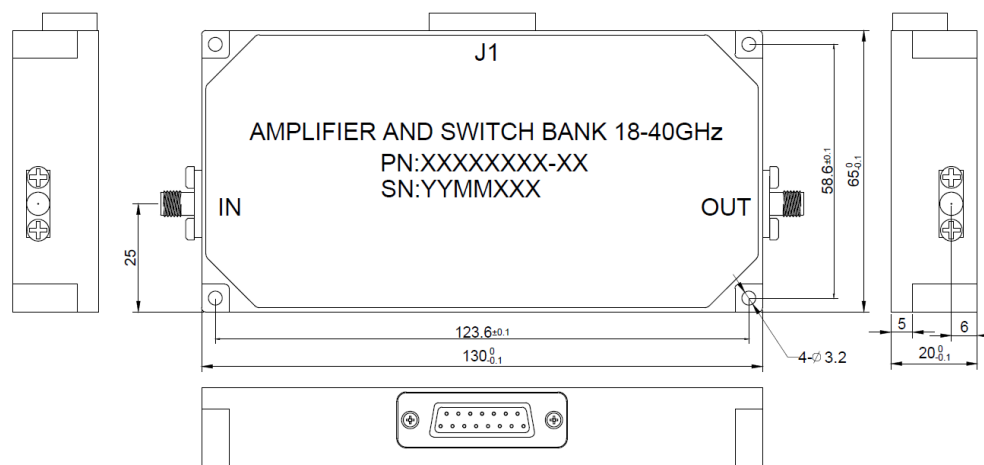
Specification – Active Filter-Amplifier Assembly

Date: 2026-09-06	Gain: ≥ 35 dB	Part No.: NX-AFA-18000-40000-35G
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■ Electrical & Mechanical Specification

No.	Parameter	Specification
1	Frequency Bands	18 – 24 GHz (Band 1) 24 – 40 GHz (Band 2)
2	Rejection – Band 1	≥ 55 dBc @ 25–36 GHz ≥ 62 dBc @ 36–40 GHz ≥ 55 dBc @ DC–17 GHz ≥ 45 dBc @ 40–51 GHz
3	Rejection – Band 2	≥ 50 dBc @ DC–23 GHz ≥ 45 dBc @ 41–80 GHz (design goal)
4	Switch Isolation	≥ 70 dB
5	Output Power (Psat)	≥ 26 dBm
6	Small Signal Gain	≥ 35 dB
7	Noise Figure	12 dB
8	VSWR (in/out)	≤ 2.5
9	Pass Band Ripple	≤ 2.5 dB (P-1) / ≤ 3.5 dB (P-3)
10	Switching Speed	≤ 300 ns
11	Power Supply	+15V (≤ 900 mA) / +5V (< 900 mA) / -12V (200 mA)
12	Connectors	2.92mm (K) Female
13	Control / Power Interface	15-pin Micro-D (Female)
14	Operating Temperature	-40°C ~ +70°C
15	Storage Temperature	-55°C ~ +125°C
16	Dimensions	$\leq 130 \times 65 \times 20$ mm (excl. connectors)
17	Housing	Nickel-Plated Aluminum, Hermetically Sealed, Conformal Coating

■ Outline Drawing [Unit: mm]





■ Functional Block Diagram

