Low Noise Amplifiers (LNAs) Comparison

- Outstanding performance and reliability Over 20 years field proven
- Single-thread, 1:1, 1:2, and Dual 1:1 redundancy
- Monopulse systems and tracking units available
- 3 year warranty All inclusive

- Enhanced corrosion resistant, siloxane-epoxy coated and tested IAW MIL-STD 202G, available
- High power C-band available with 25dBm output power
- CE, WEEE, RoHS and Reach

C Band

Frequency (GHz)	N	Noise Temperature (K)						3 Out (d	dBm)
	28	30	35	40	45	60	10	20	25
3.40 - 4.20	•	•	•	•	•	•	•	•	•

Ku Band

Frequency (GHz)	Noise Temperature (K)				Gain	(dB)		3 Out 3m)
	65	70	80	90	50	60	12	20
10.70 - 12.75	•	•	•	•	•	•	•	•



Corrosion-Resistant C/Ku-Band

Ka Band

Frequency (GHz)	Noise Temperature (K)		Gain (dB)		P1dB Out (dBm)
	120	130	50	60	20
17.70 - 21.20	•	•	•	•	•

X Band

Frequency (GHz)	Tempe	Noise Femperature Gain (K) (dB)		P1dB Out (dBm)		
	45	50	50	60	15	20
7.25 - 7.75	•	•	•	•	•	•



Wideband Ka-Band LNA

S Band

Frequency (GHz)	Tempo	oise erature K)	Gain (dB)	P1dB Out (dBm)	
	45	50	60	10	
2.20 - 2.40	•	•	•	•	

L Band

Frequency (GHz)	Noise Temperature (K)			Gain	(dB)	P1dB Out (dBm)
	35	40	45	50	60	10
1.510 - 1.577	•	•	•	•	•	•



High-Power C-Band LNA

Low Noise Block Converters (LNBs) Comparison

Low Noise Block Converters (LNBs)

Band	Ku-Band	Ku-Band	Ku-Band	Ku-Band	Ku-Band
Frequency	10-70 - 11.70 GHz, 11.70 - 12.20 GHz, 12.20 - 12.75 GHz	10.70 - 11.70 GHz, 11.70 - 12.20 GHz, 12.20 - 12.75 GHz	10.95 - 11.70 GHz	11.70 - 12.20 GHz	12.25 - 12.75 GHz
Types Available	Single-Thread, 1:1. 1:2. Systems include Redundancy Controllers - Band Switching Systems	Single-Thread, 1:1. 1:2. Systems include Redundancy Controllers - Band Switching Systems	Single-Thread, 1:1. 1:2. Systems include Redundancy Controllers	Single-Thread, 1:1. 1:2. Systems include Redundancy Controllers	Single-Thread, 1:1. 1:2. Systems include Redundancy Controllers
Reference	Externally Referenced	10 MHz Auto-Switching Reference	Internally Referenced	Internally Referenced	Internally Referenced
Temperature Range (Single-Thread Units)	-40 °C to +70 °C	-40 °C to +70 °C	-40 °C to +70 °C	-40 °C to +70 °C	-40 °C to +70 °C

Low Noise Block Converters (LNBs)

Band	C-Band	X-Band	X-Band	X-Band
Frequency	3.40 - 4.20 GHz	7.25 - 7.75 GHz	7.25 - 7.75 GHz	7.25 - 7.75 GHz
Types Available	Single-Thread, 1:1. 1:2. Systems include Redundancy Controllers	Single-Thread, 1:1. 1:2. Systems include Redundancy Controllers	Single-Thread, 1:1.1:2. Systems plus Redundancy Controller	Single-Thread, 1:1.1:2. Systems plus Redundancy Controller
Reference	Internally Referenced	Internally Referenced	Externally Referenced	10 MHz Auto-Switching Reference
Temperature Range (Single-Thread Units)	-40 °C to +70 °C	-40 °C to +60 °C	-40 °C to +70 °C	-40 °C to +70 °C

Low Noise Block Converters (LNBs)

Band	Ka-Band	Ka-Band
Frequency	19.20 - 20.20 GHz	20.20 - 21.2 GHz
Types Available	Single-Thread, 1:1.1:2. Systems include Redundancy Controllers	Single-Thread, 1:1. 1:2. Systems include Redundancy Controllers
Reference	Internal reference power muted when external reference is present	Internal reference power muted when external reference is present
Temperature Range (Single-Thread Units)	-40 °C to +70 °C	-40 °C to +70 °C

customercare@gd-ms.com • gdmissionsystems.com/satcom • +1-770-689-2040

GENERAL DYNAMICS
SATCOM Technologies

©2020 General Dynamics. All rights reserved. General Dynamics reserves the right to make changes in its products and specifications at anytime and without notice. All trademarks indicated as such herein are trademarks of General Dynamics. All other product and service names are the property of their respective owners. ® Reg. U.S. Pat. and Tm. Off.