



TECHNOLOGIES

TELECOMMUNICATION
DT RF & Microwave Product

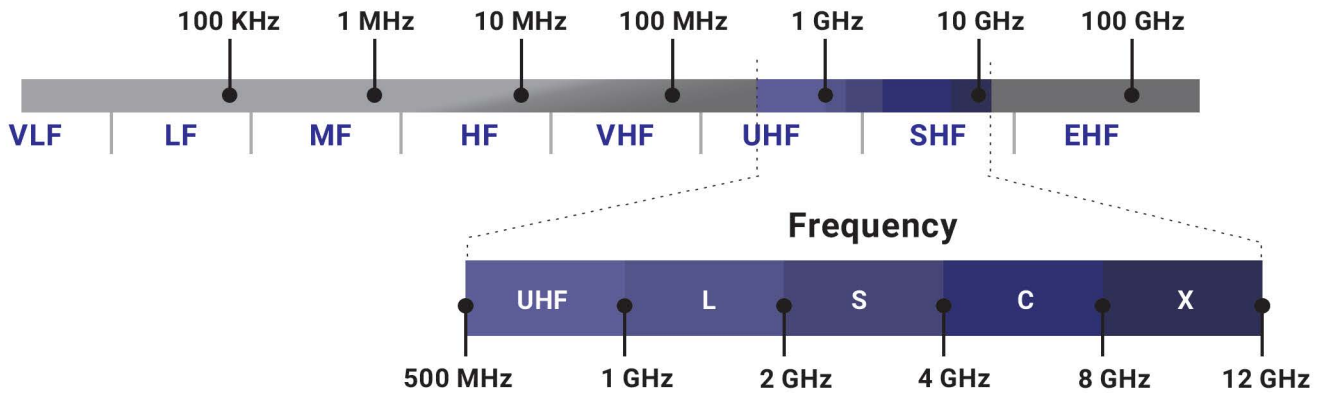


Low Noise Amplifier

500 to 12000 MHz

Part Number: **LNA-500-12000-SF**

Application: Cellular, PCS, Communication Receivers
& Transmitters, Satellite Communication, Military



Parameter	Min.	Typ.	Max.	Units
Gain	-	17	-	dB
Gain Flatness	-	1.2	-	±dB
Noise Figure	-	2.5	-	dB
Output P1dB	-	14	-	dBm
Output IP3	-	25	-	dBm
Input Return Loss	8	-	-	dB
Output Return Loss	10	-	-	dB
Operating Voltage	4.5	5	5.5	V
Operating Current	-	100	-	mA
Input Power	-	15	-	dBm
Operating Temperature	-40	-	85	°C
Connector Type	SMA Female			-
Absolute Maximum Rating				
Source Voltage	-	+5.5	-	V
RF Input Power	-	+17	-	dBm
Storage Temperature	-45	-	95	°C



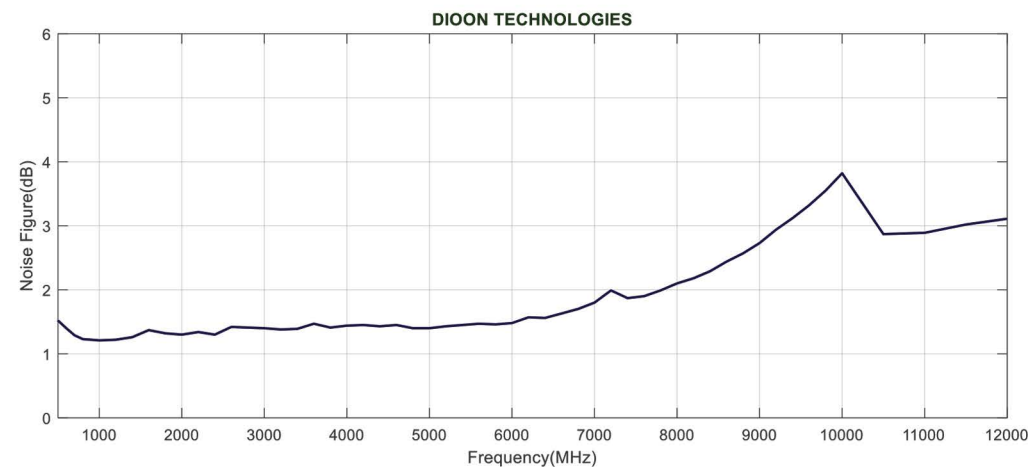
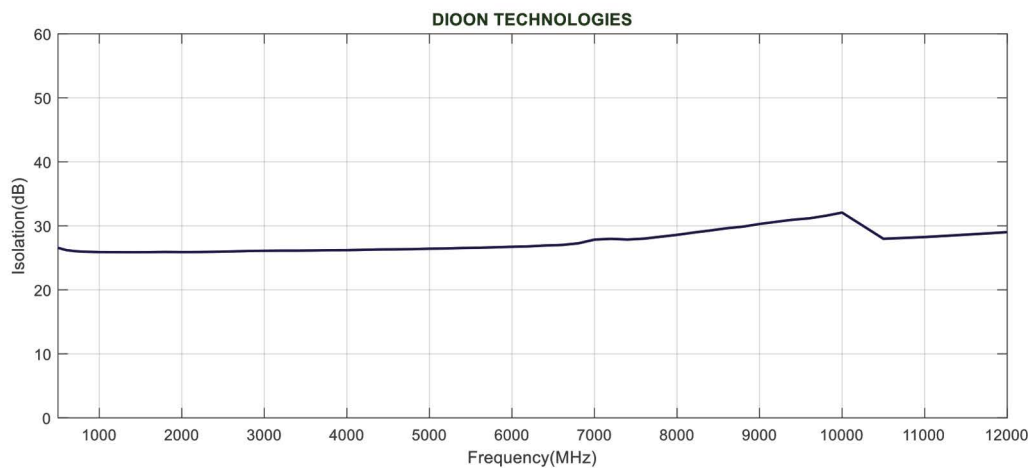
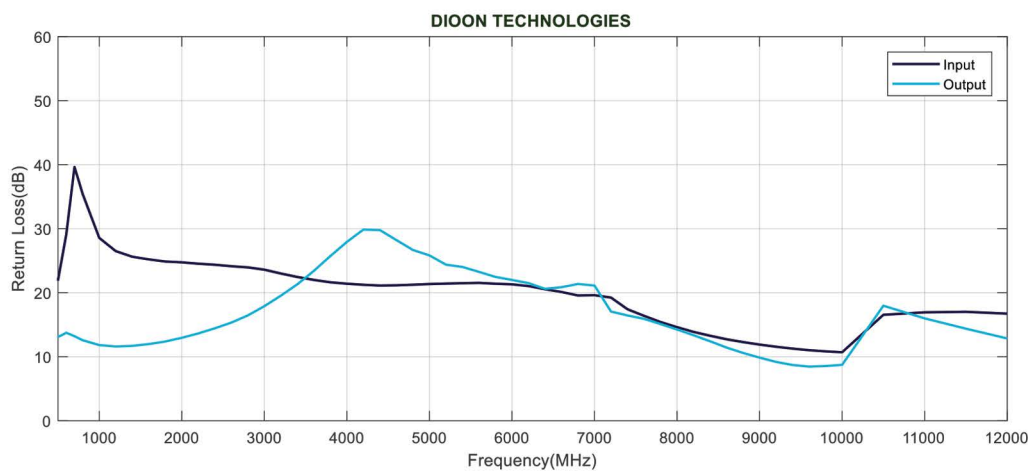
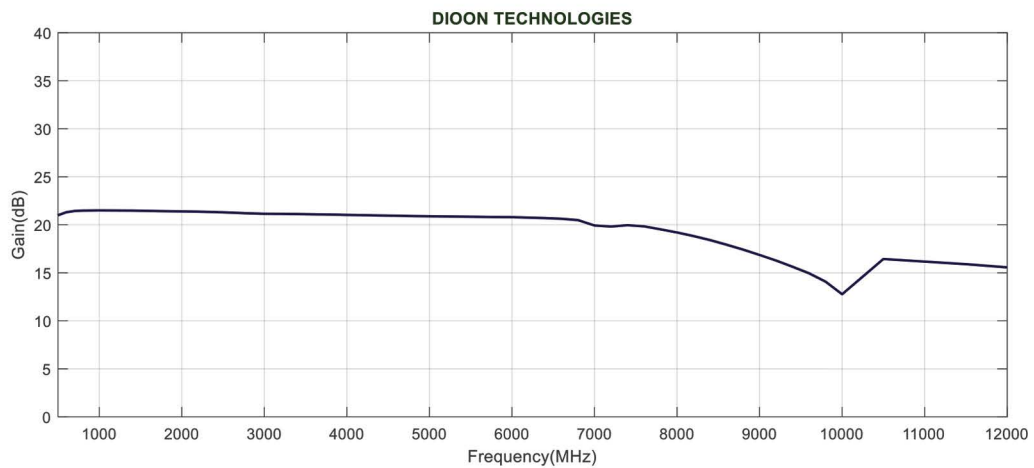
Typical Performance Curves

Input Return Loss = $-S_{11}$ (dB)

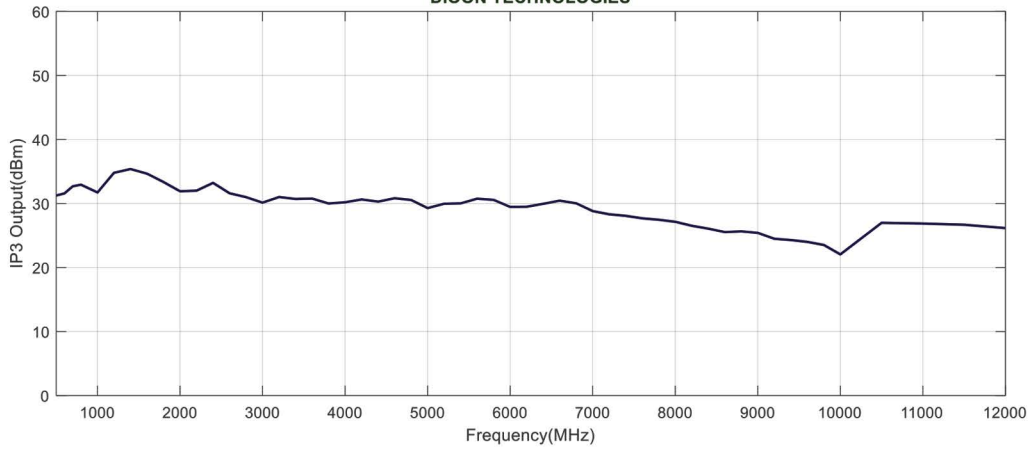
Gain (Power Gain) = S_{21} (dB)

Reverse Isolation = $-S_{12}$ (dB)

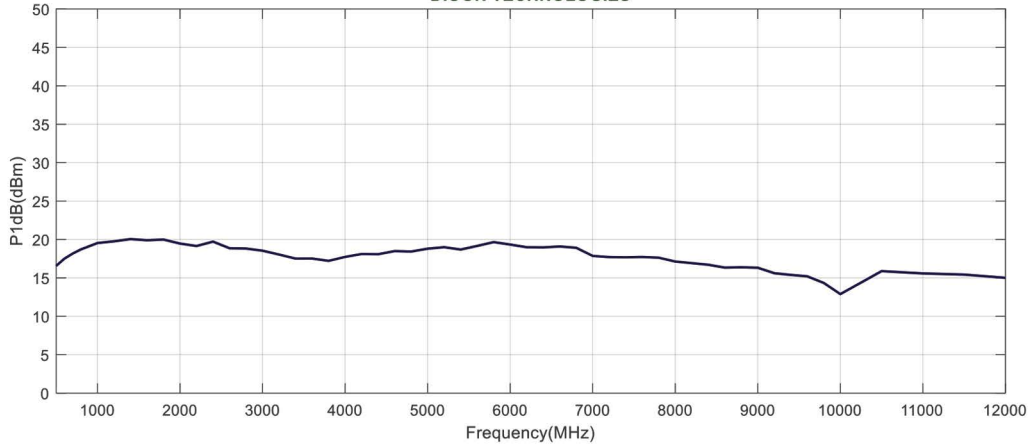
Output Return Loss = $-S_{22}$ (dB)



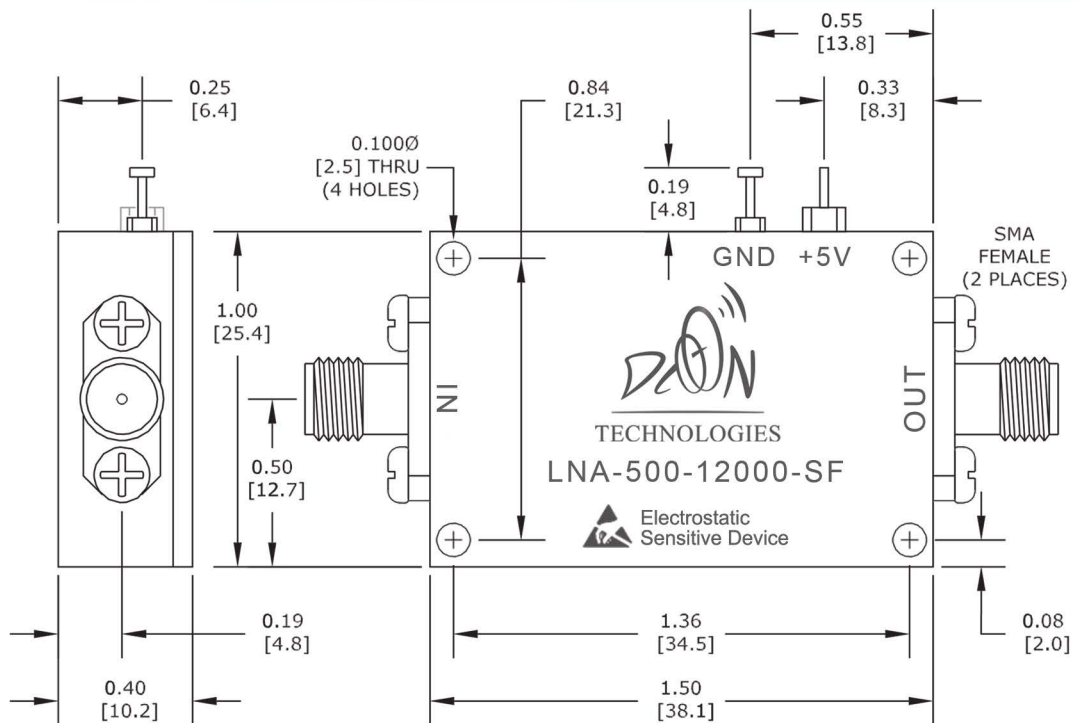
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CAD Drawing



NOTE:

- ▶ Unless Otherwise Specified All Dimensions Are Nominal.
- ▶ All Specifications Are Subject To Change Without Notice At Any Time.
- ▶ Dimensions Are In Inches (mm).



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