



TECHNOLOGIES

**TELECOMMUNICATION**  
DT RF & Microwave Product

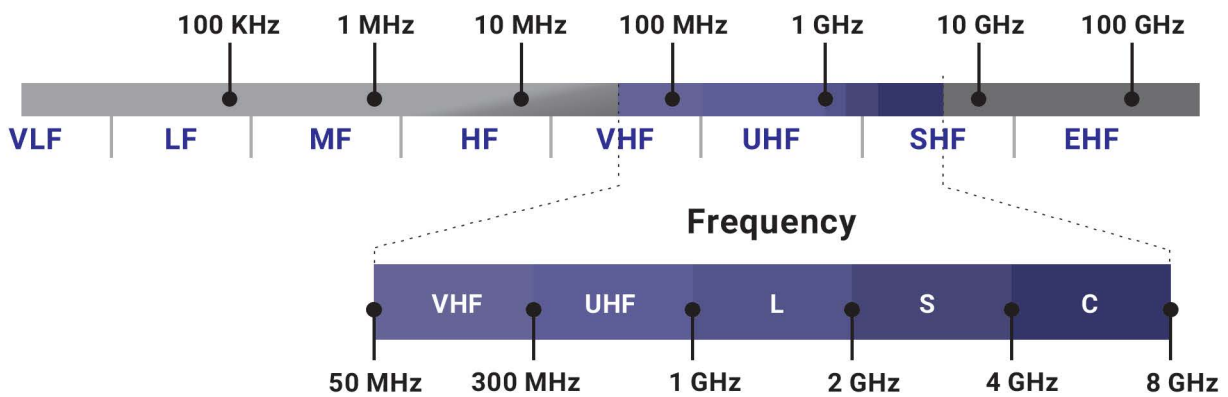


## Low Noise Amplifier

**50 to 8000 MHz**

Part Number: **LNA-50-8000-SF**

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



Parameter	Min.	Typ.	Max.	Units
Gain	-	16	-	dB
Gain Flatness	-	1	-	±dB
Noise Figure	-	3.8	-	dB
Output P1dB	-	12	-	dBm
Output IP3	-	25	-	dBm
Input Return Loss	10	-	-	dB
Output Return Loss	8	-	-	dB
Operating Voltage	4.5	5	5.5	V
Operating Current	-	60	-	mA
Input Power	-	8	-	dBm
Operating Temperature	-40	-	85	°C
Connector Type	SMA Female			-
<b>Absolute Maximum Rating</b>				
Source Voltage	-	+5.5	-	V
RF Input Power	-	+10	-	dBm
Storage Temperature	-55	-	95	°C



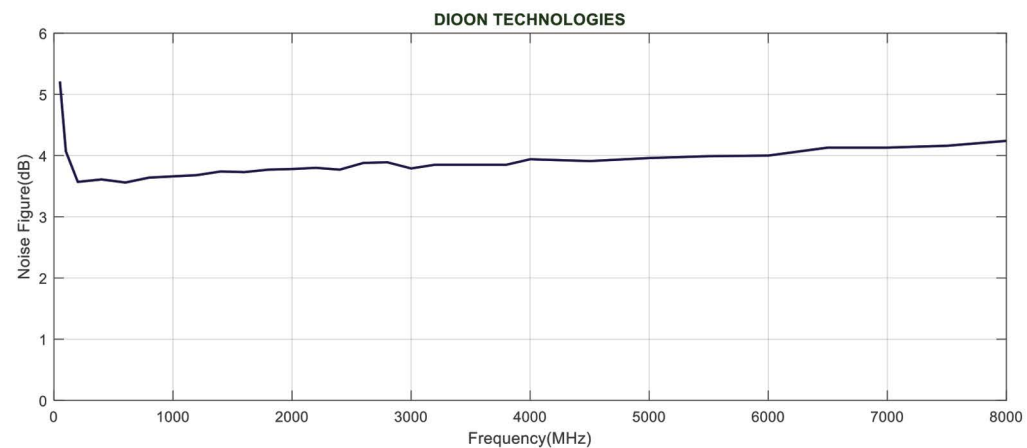
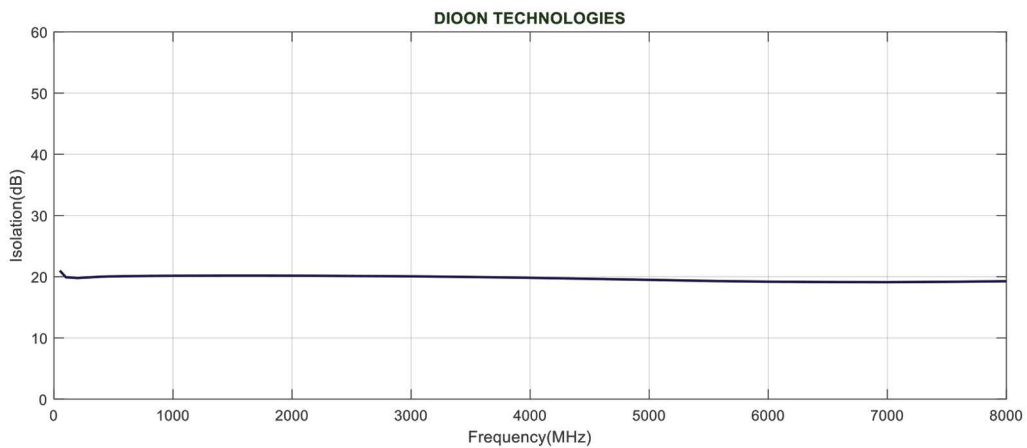
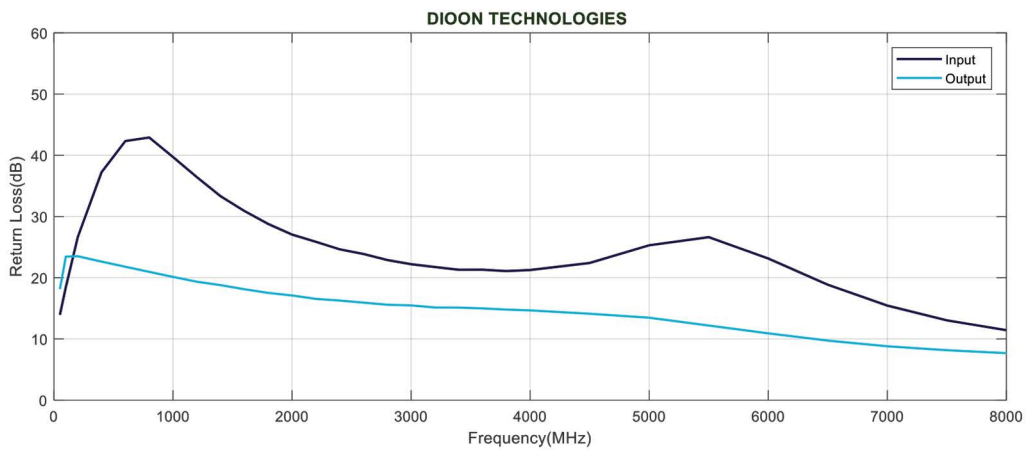
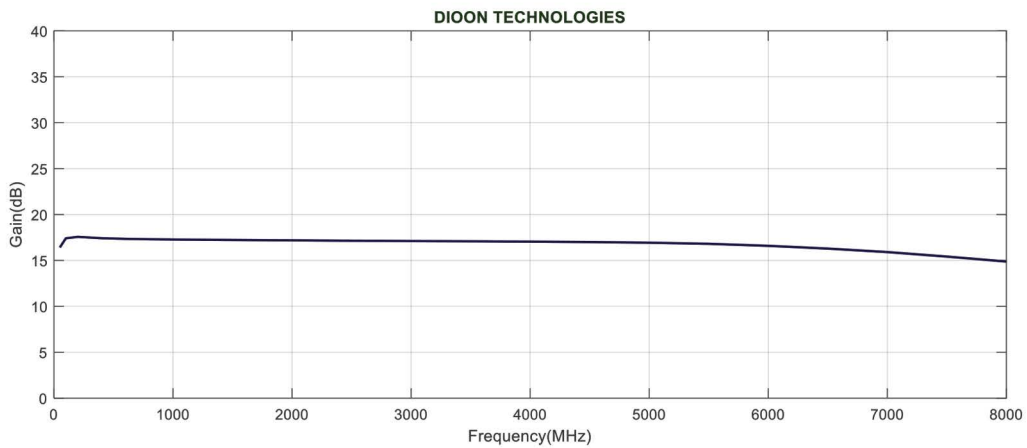
## Typical Performance Curves

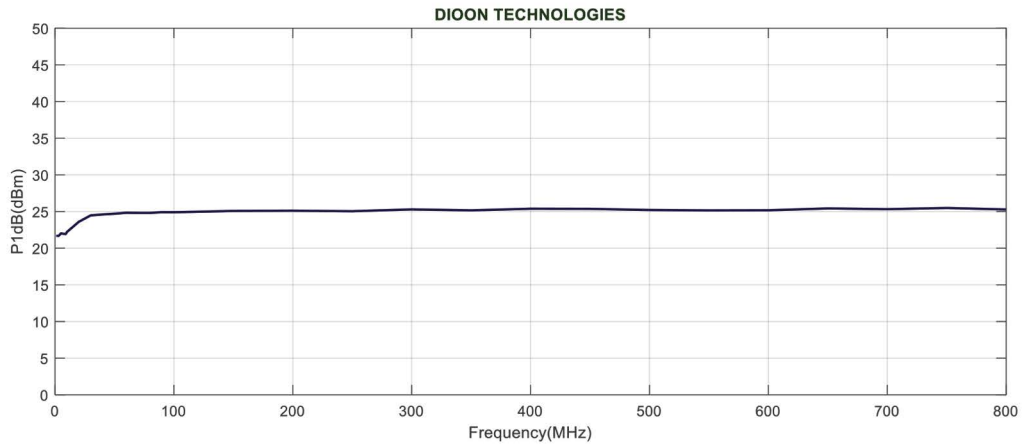
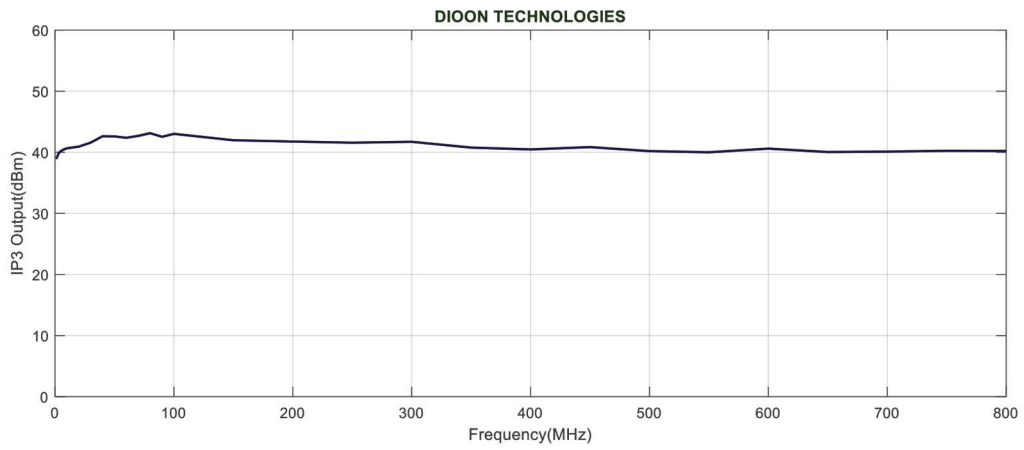
Input Return Loss =  $-S_{11}$  (dB)

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

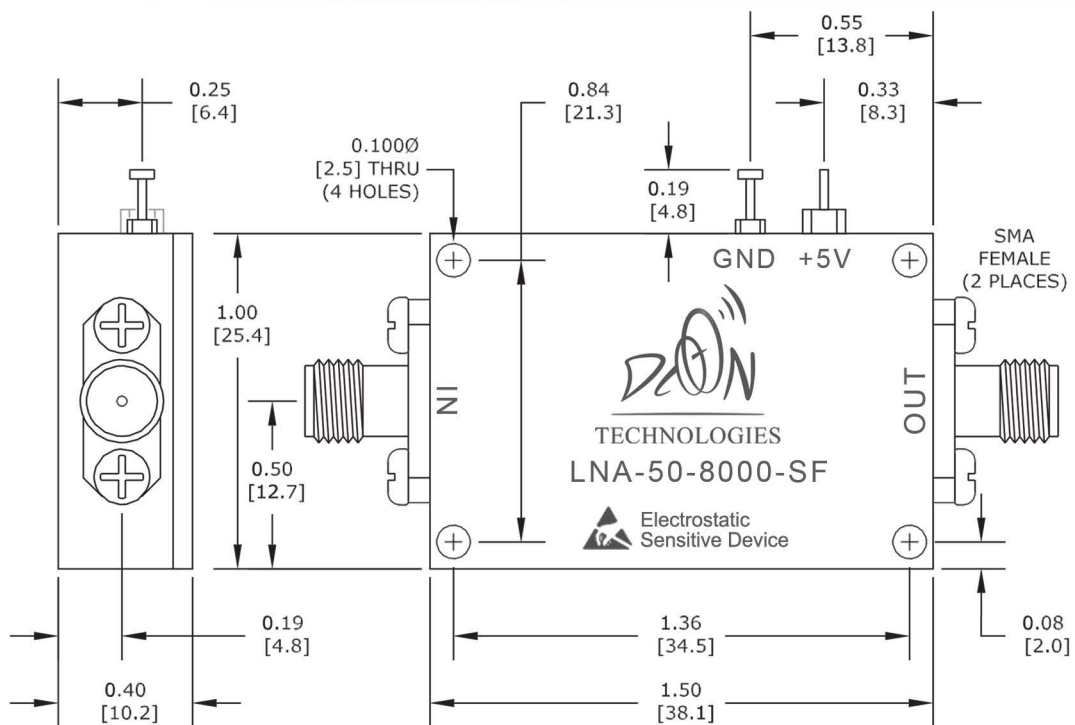
Reverse Isolation =  $-S_{12}$  (dB)

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





## 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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