



TECHNOLOGIES

TELECOMMUNICATION  
DT RF & Microwave Product

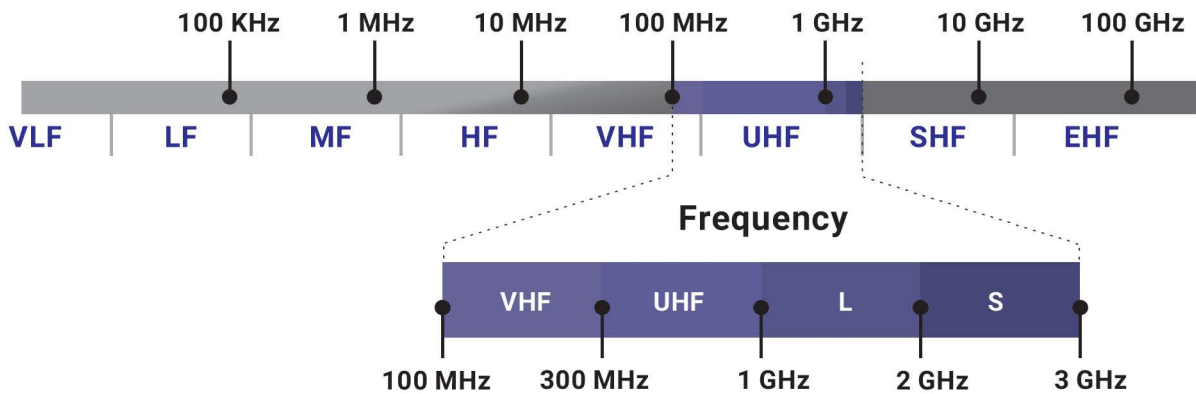


## Low Noise Amplifier

100 to 3000 MHz

Part Number: **LNA-100-3000-SF**

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



Parameter	Min.	Typ.	Max.	Units
Gain	10	-	25	dB
Noise Figure	-	0.8	-	dB
Output P1dB	-	20	-	dBm
Output IP3	-	34	-	dBm
Input Return Loss	12	-	-	dB
Output Return Loss	12	-	-	dB
Operating Voltage	4.5	5	5.5	V
Operating Current	-	80	-	mA
Input Power	-	18	-	dBm
Operating Temperature	-40	-	85	°C
Connector Type	SMA Female			
<b>Absolute Maximum Rating</b>				
Source Voltage	-	+5.5	-	V
RF Input Power	-	+20	-	dBm
Storage Temperature	-45	-	95	°C



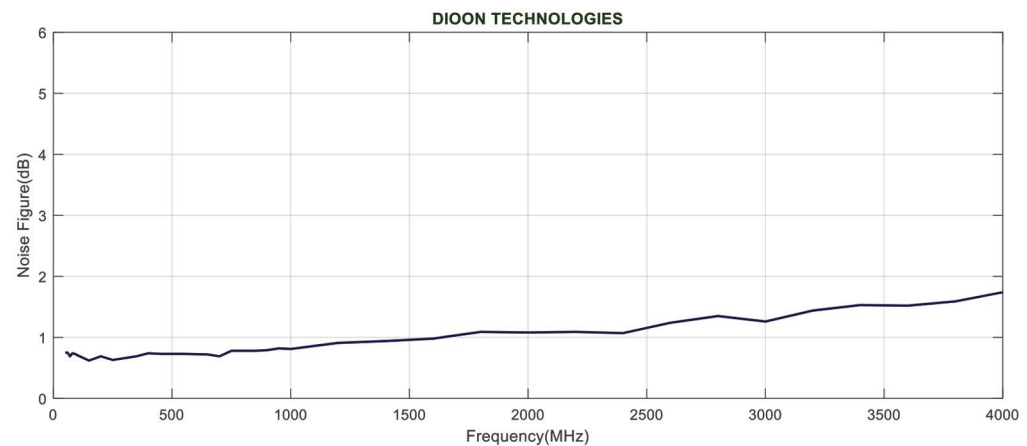
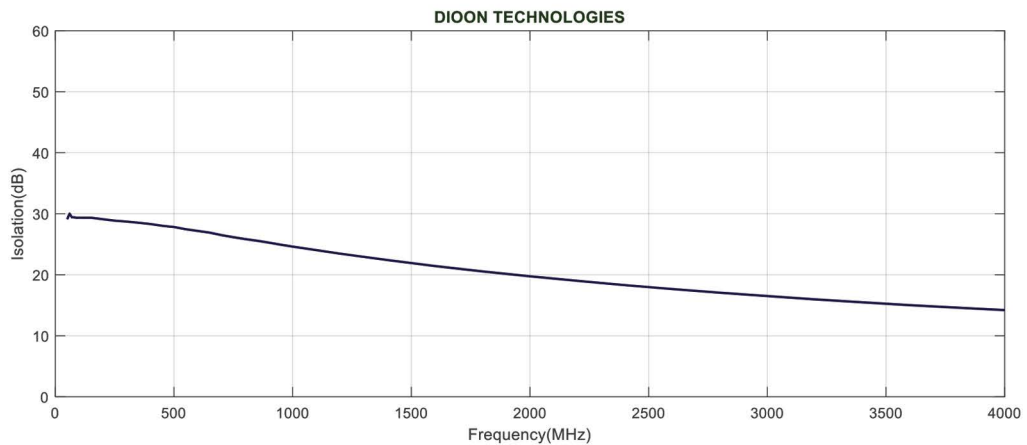
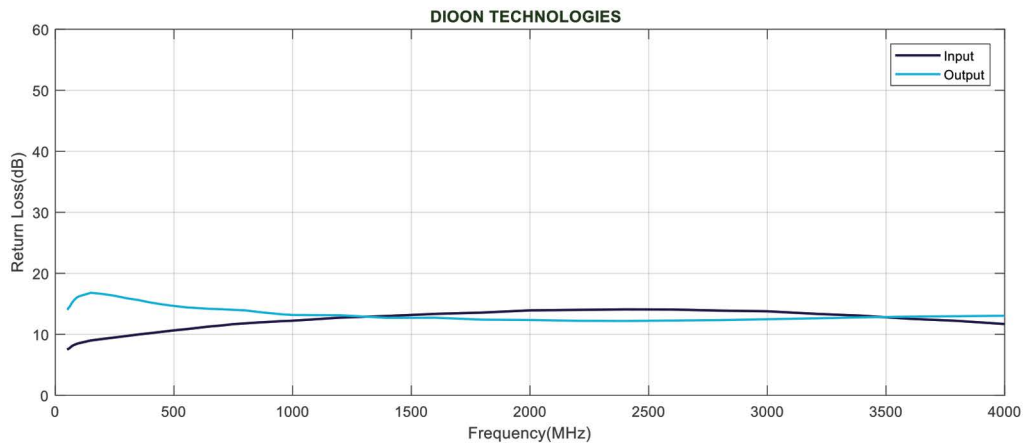
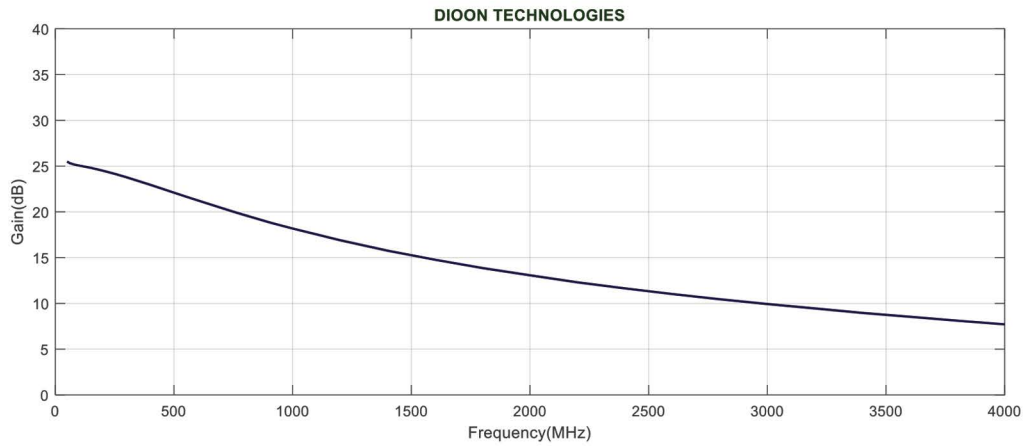
# Typical Performance Curves

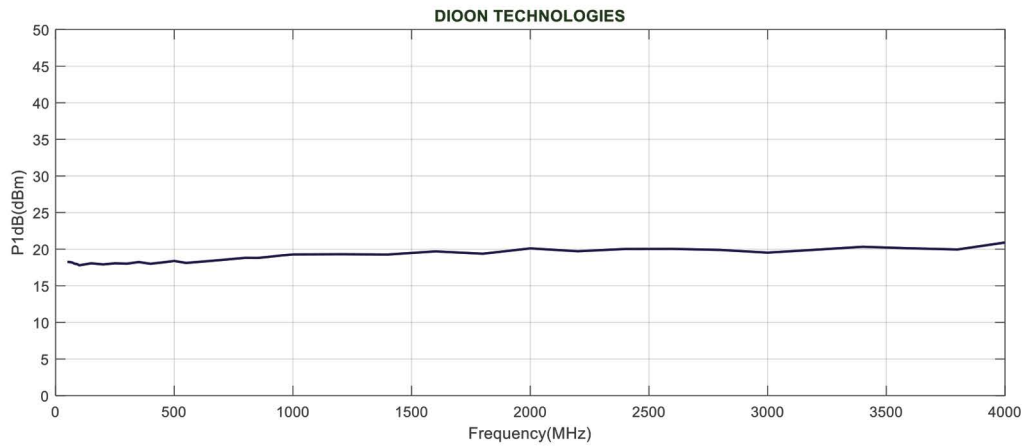
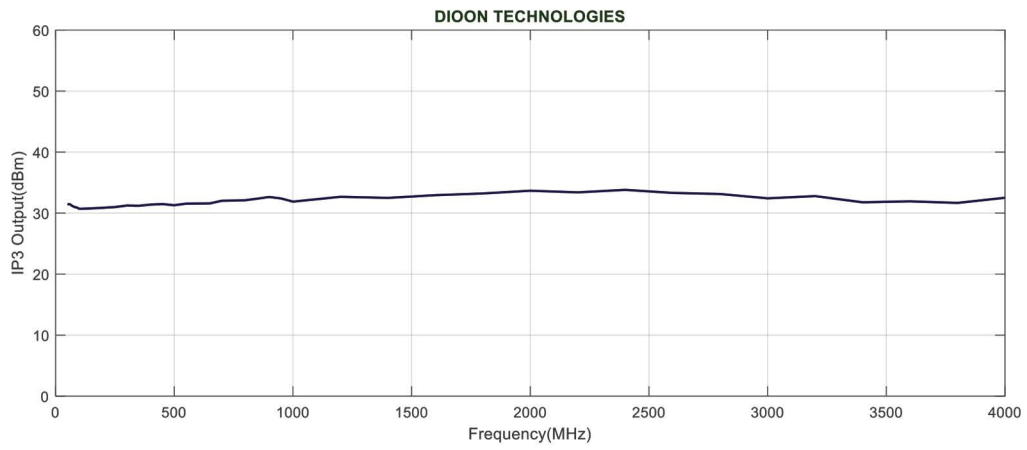
Input Return Loss =  $-S_{11}$  (dB)

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

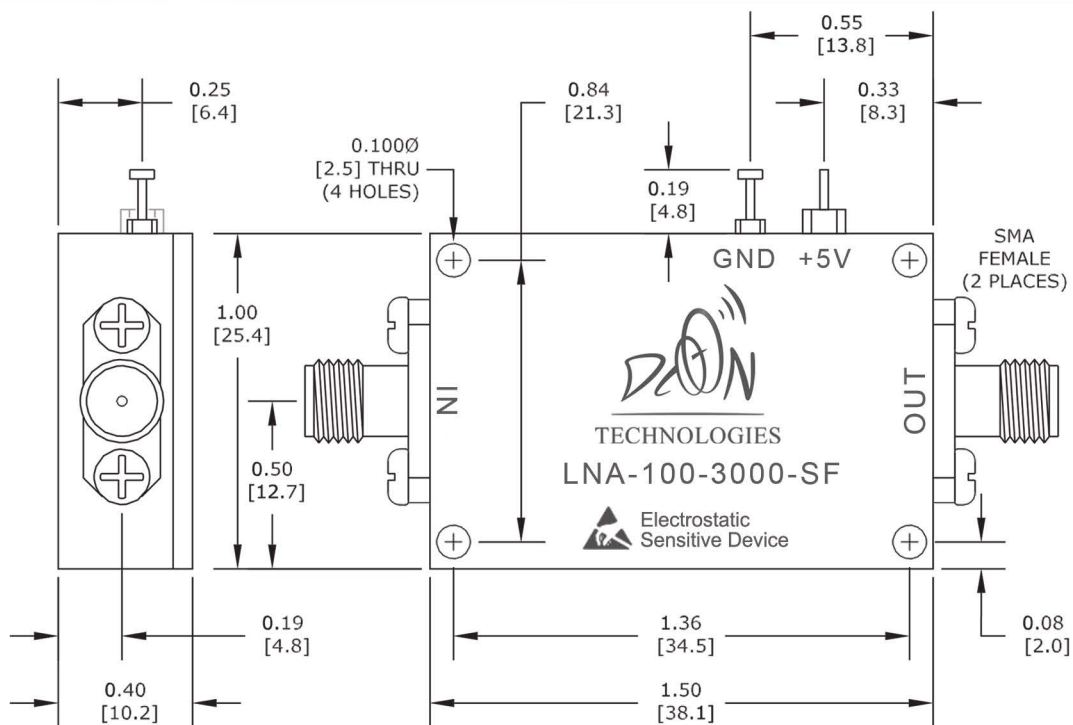
Reverse Isolation =  $-S_{12}$  (dB)

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





## 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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