

## ENA Series

## 1700 – 2100MHz Low Noise Amplifier

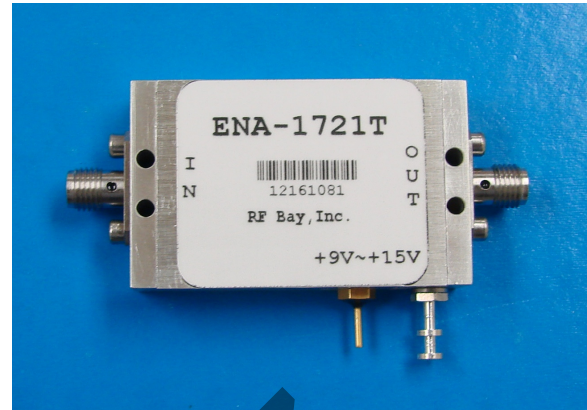
### Features

- Frequency Range: 1700-2100MHz
- Gain: 22dB min.
- P<sub>1dB</sub>: +20dBm
- OIP3: +32dBm
- Noise Figure: 1.0dB (typ.)
- DC Power: 9V to 15V @ 160mA
- SMA-female connectorized

### Description

ENA-1721T is a high performance Microwave Low Noise (& Driver) Amplifier, with standard frequency range of 1700MHz to 2100MHz.

### Photo



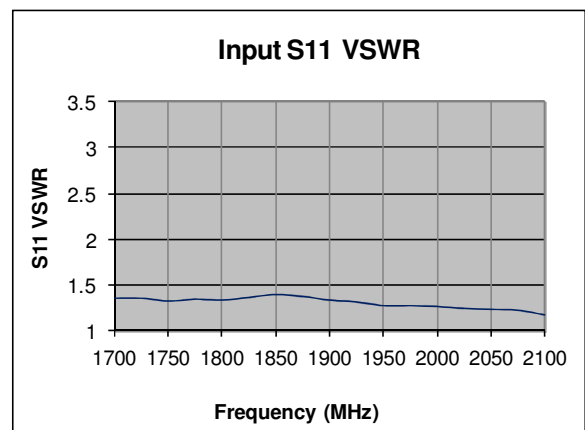
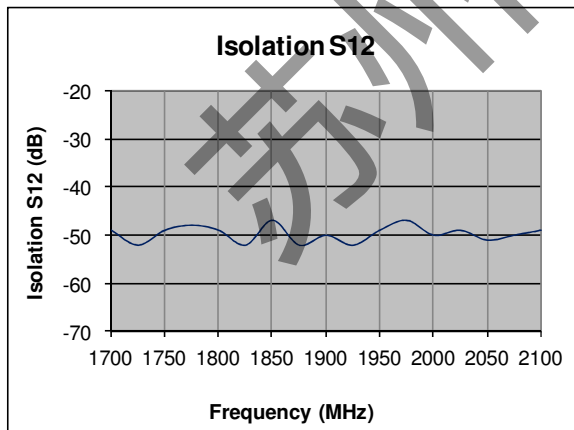
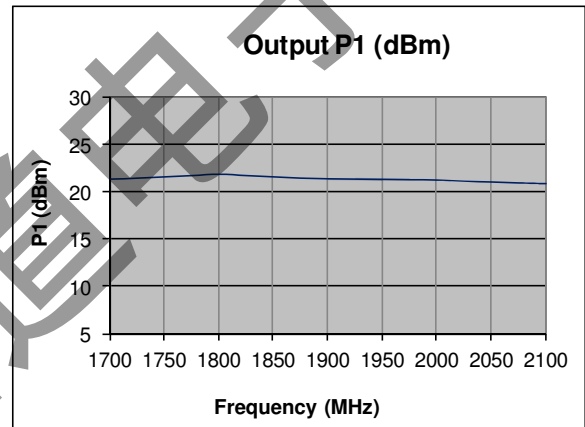
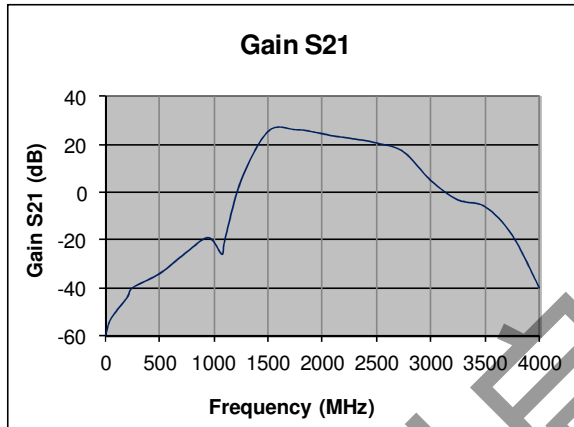
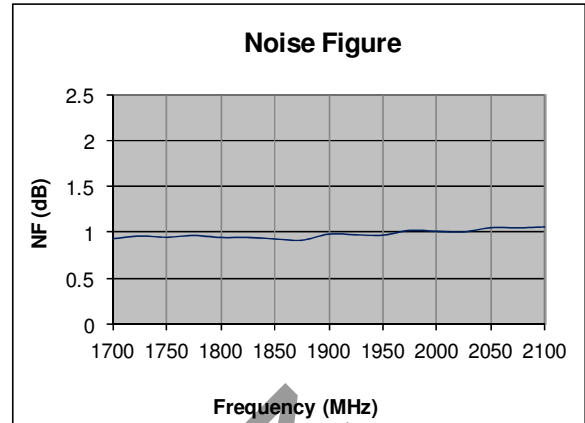
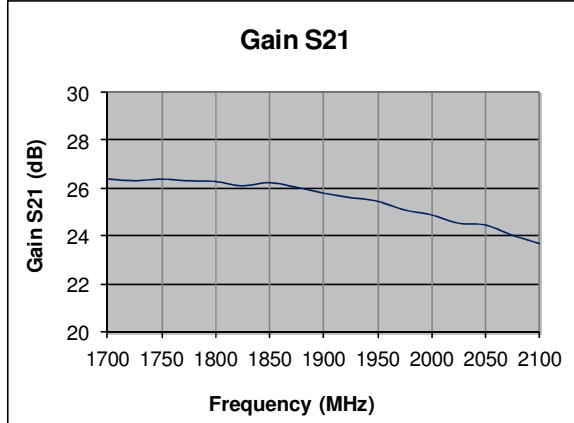
### Electrical Specifications @+25 °C, Z<sub>in</sub>=Z<sub>out</sub>=50 Ω, V<sub>supply</sub> = +12VDC

Parameter	Unit	Minimum	Typical	Maximum
Frequency Range	MHz	1700		2100
Gain (S21) f = 1700MHz	dB		26.0	
f = 1900MHz	dB		25.8	
f = 2100MHz	dB	22.0	24.0	
Gain Variation Over Temperature	dB/°C		0.02	0.03
Output Power P <sub>1dB</sub>	dBm		+20	
Saturated Output Power P <sub>Sat</sub>	dBm		+22	
Output Third Order Intercept IP3	dBm		+32	
Noise Figure	dB		1.0	1.5
Reverse Isolation (S12) @1900MHz	dB		-50	
VSWR-Input (S11)	ratio:1	1.4@1700MHz	1.4@1900MHz	1.2@2100MHz
VSWR-Output (S22)	(unitless)	2.5@1700MHz	1.9@1900MHz	2.4@2100MHz
DC Power Supply - voltage	V	9	12	15
DC Power Supply - current	mA		160	
Operating Temperature	°C	-40		+85
Size (RF/DC feedthrough excluded)	Inch	1.79 (L) x 1.10 (W) x 0.45 (H)		
Weight	Oz	1.4		

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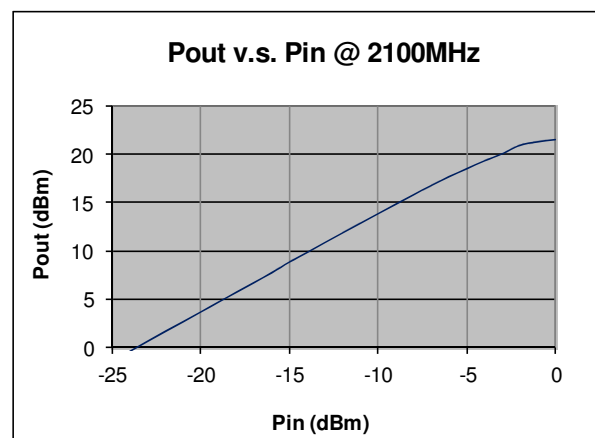
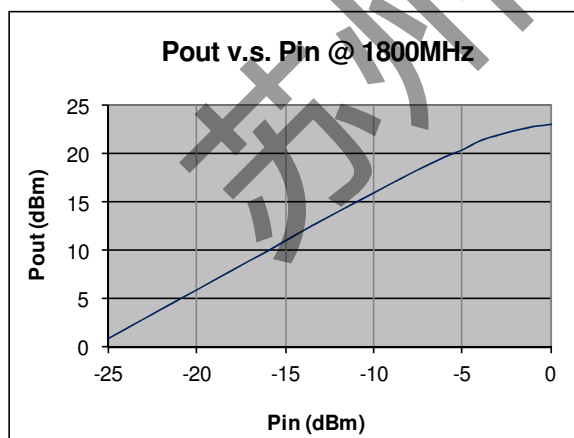
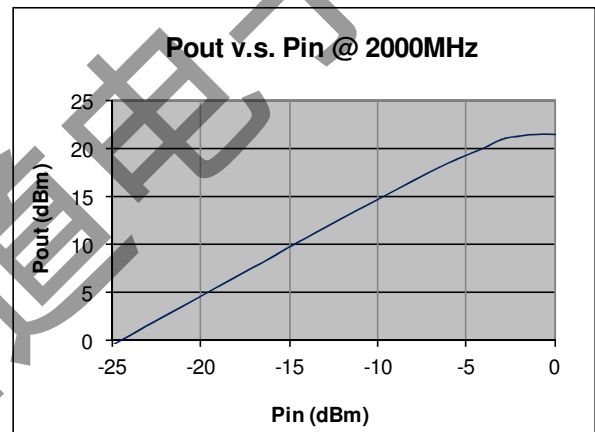
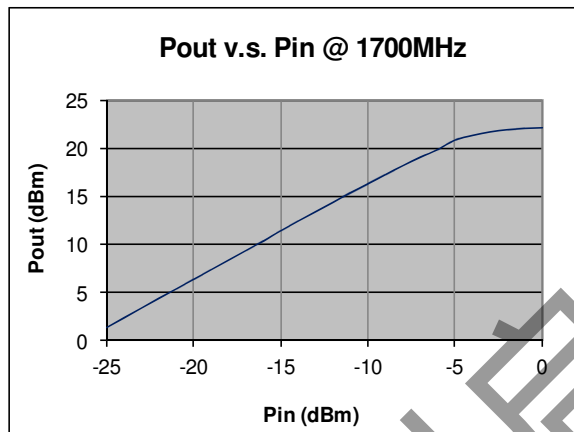
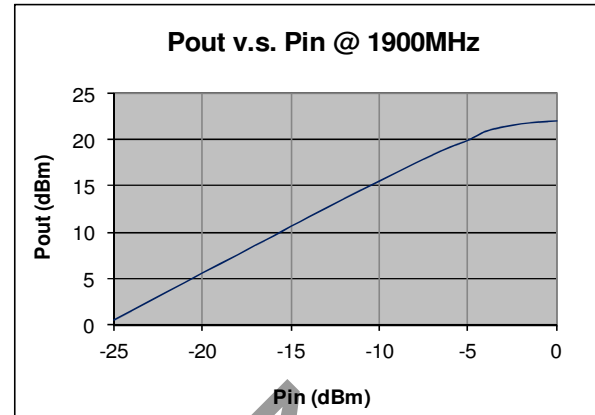
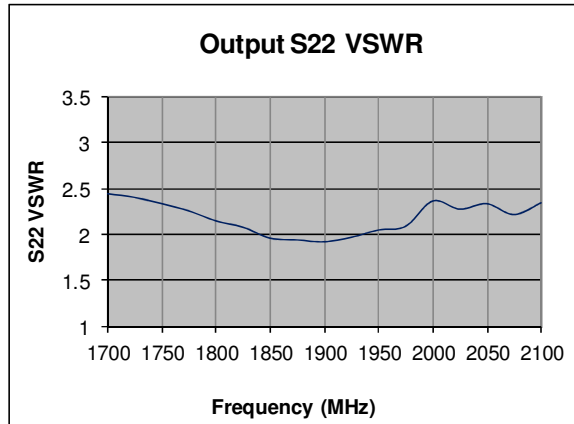
### Typical Performance @+25 °C



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### Absolute Maximum Ratings

Parameter	Absolute Maximum
RF Input Power	+25dBm
Supply Voltage	+20V
Operating Temperature	-40 °C to +85 °C
Storage Temperature	-55 °C to +125 °C

### Outline

