

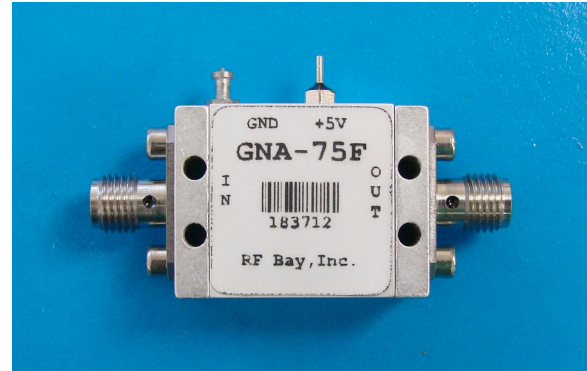
## GNA Series

## 2 – 6GHz Low Noise Amplifier

### Features

- Frequency Range: 2-6GHz
- Gain: 28dB @ 4GHz
- $P_{1dB}$ : +18dBm
- IP3: +30dBm
- Noise Figure: 0.8dB (typ.)
- DC Power: 5V @ 65mA
- RF Connector: SMA-female

### Photo



### Description

GNA-75F is a high performance Microwave Low Noise (& Driver) Amplifier, with standard frequency range of 2GHz to 6GHz.

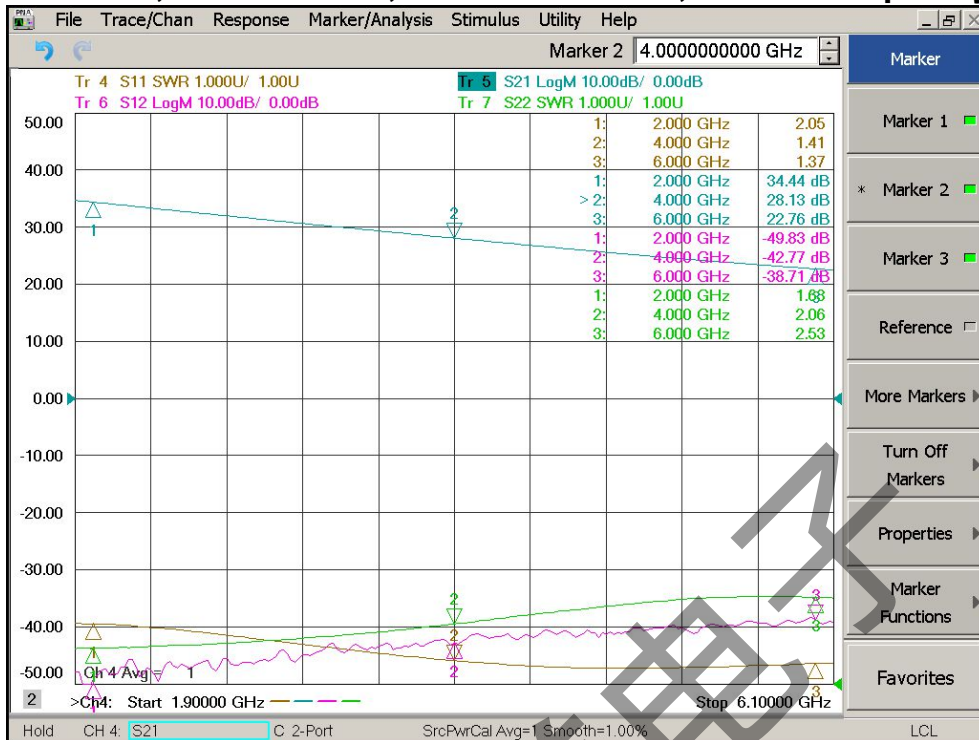
### Electrical Specifications @+25 °C, $Z_{in}=Z_{out}=50 \Omega$ , DC Voltage = +5VDC

Parameter	Unit	Minimum	Typical	Maximum
Frequency Range	GHz	2		6
Gain S <sub>21</sub>	f = 2GHz	dB	32.0	34.0
	f = 4GHz	dB	26.0	28.0
	f = 6GHz	dB	20.0	22.0
Gain Flatness	dB		± 5.0	± 6.5
Gain Variation Over Temperature	dB/°C		0.02	0.03
Output Power P <sub>1dB</sub>	f = 4GHz	dBm	+16	+18
Output Third Order Intercept IP3	f = 4GHz	dBm	+28	+30
Noise Figure	f = 4GHz	dB	0.8	1.0
Reverse Isolation S <sub>12</sub>	f = 4GHz	dB	-35	-40
Input VSWR S <sub>11</sub>	f = 4GHz		1.5:1	2.0:1
Output VSWR S <sub>22</sub>	f = 4GHz		2.0:1	2.5:1
DC Power Supply - voltage	V	4.5	5.0	15
DC Power Supply - current	mA		65	75

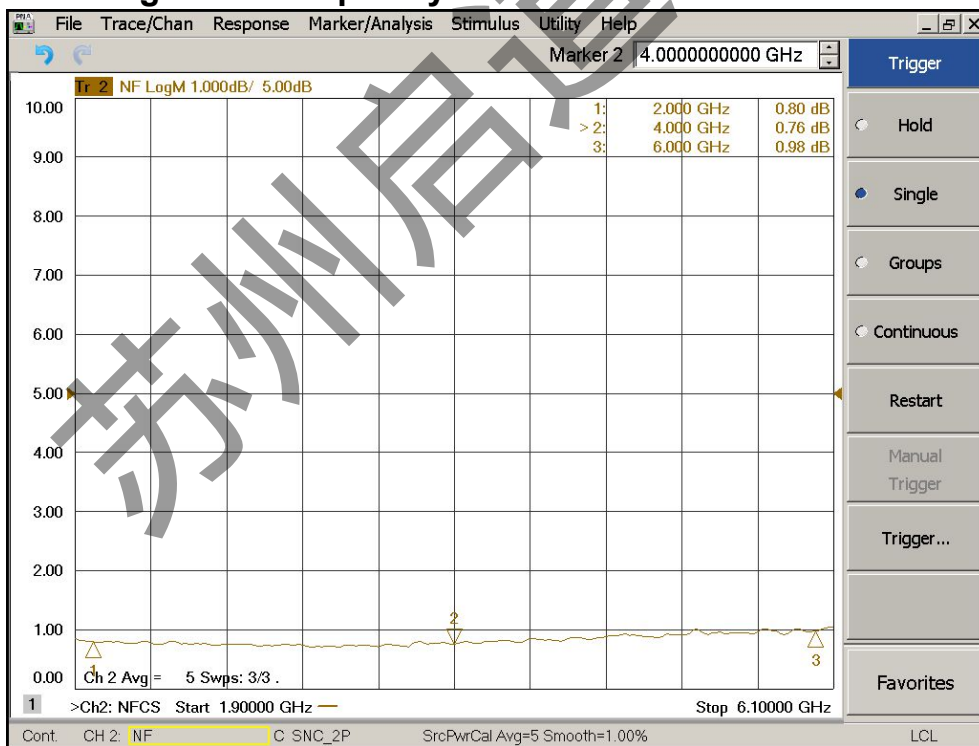
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**Gain S21, Isolation S12, Return Loss S11, S22 vs Frequency**



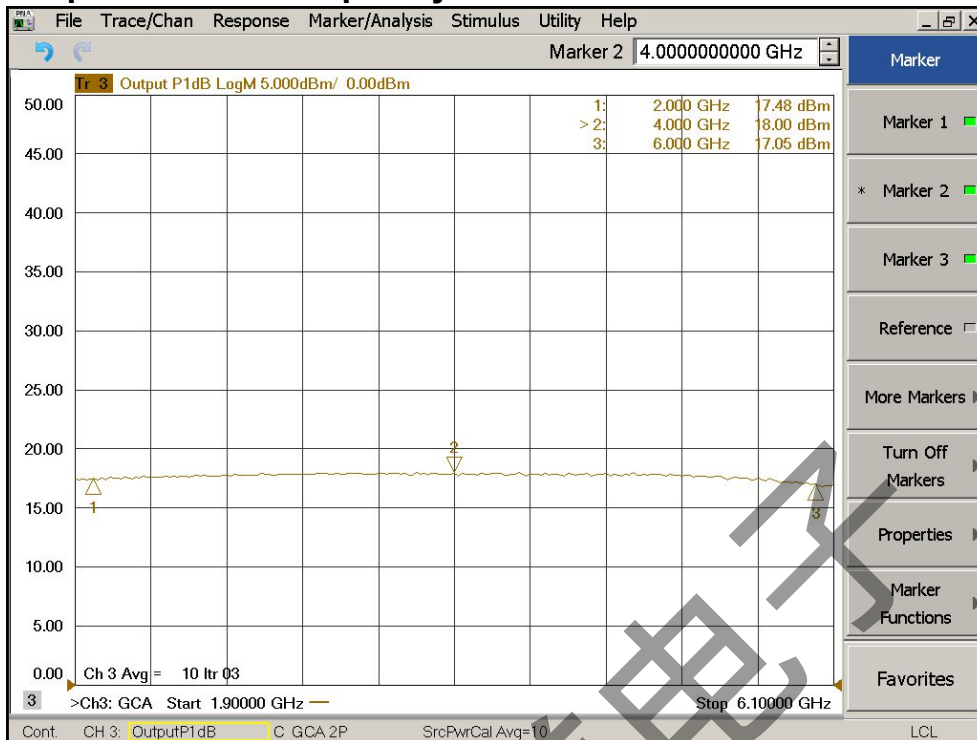
**Noise Figure vs Frequency**



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### Output P1dB vs Frequency



### Output IP3 vs Frequency

