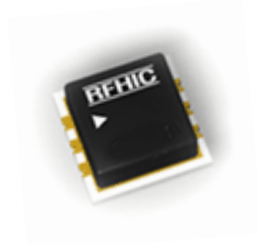


Product Features

- GaAs MESFET chip on board
- No matching circuit needed
- High IP3
- Surface Mount Hybrid Type & Reel Packing
- Small Size

Application

- PCS Repeater
- RF Sub-Systems
- Base Station



Description

This Linear Amplifier family is a low noise amplifier with high gain and low current.

It is one of the smallest matched Amplifiers.

This family of Linear Amplifier has superior performance comes with a modest price tag

ELECTRICAL CHARACTERISTICS

Absolute Minimum and Maximum Ratings

PARAMETER	UNIT	MIN	MAX
Device Voltage	VDC		+8
RF Input Power	dBm		+7
Storage Temperature	°C	-40	+125
Channel Temperature	°C	-40	+85

Operating Ranges

PARAMETER	UNIT	MIN	TYP	MAX
Operating Frequency	MHz	50	-	200
Device Voltage	VDC	-	+5	+8
Case Temperature	°C	-40	-	+85

Electrical Specifications

(Ta=+25°C, V_{DD}=+5V, F=70MHz)

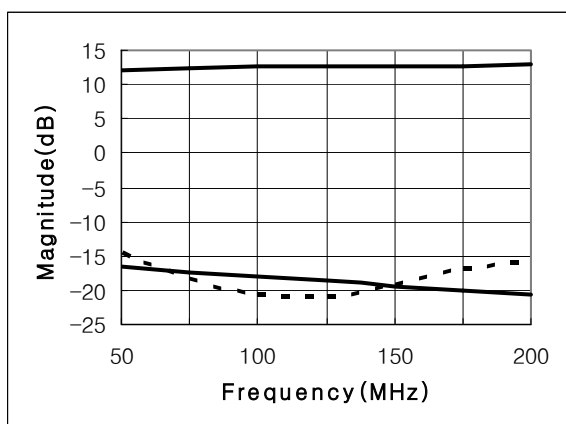
PARAMETER	UNIT	MIN	TYP	MAX
Gain	dB		12.2	-
Input Return Loss	dB	-	-16	-
Output Return Loss	dB	-	-14	-
Output IP3	dBm	+38	40	-
1dB Compression Point	dBm	-	21.6	-
Noise Figure	dB	-	5.0	-
DC Current	mA		140	
Supply Voltage	VDC	-	+5V	
Thermal Resistance(Rth)	°C/W	-	-	20

OIP3 is measured with two tones, at an output power of 10dBm/tone separated by 1MHz

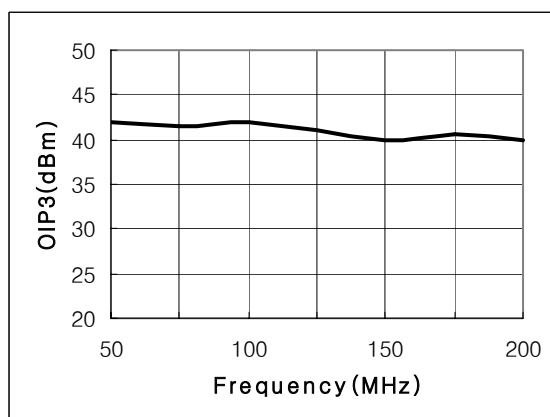
Performance Charts ($V_d=5V$, $I_d=140mA$, $T_c=25^\circ C$)

Frequency	MHz	50	100	150	200
Gain	dB	12.2	12.5	12.6	12.8
S11	dB	-16	-18	-19	-20
S22	dB	-14	-20	-19	-16
OIP3	dBm	42	42	40	40
P1dB	dBm	21.6	21.7	21.7	21.8
Noise Figure	dB	5.0	4.0	3.8	3.9

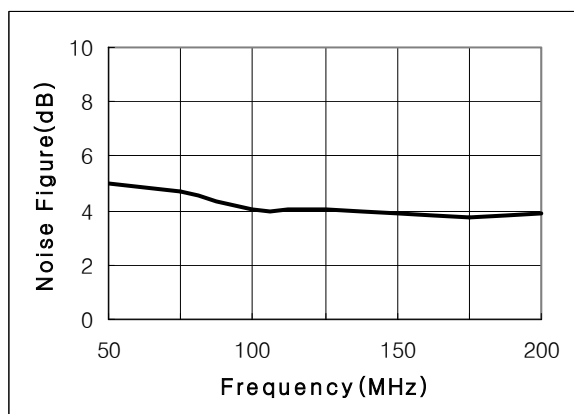
S-Parameter vs. Frequency



OIP3 vs. Frequency



Noise Figure vs. Frequency



P1dB vs. Frequency

