

**High Intercept Amplifier,
15 - 100 MHz**

**AM05-0005
V3**

S-Parameter Data

Frequency (MHz)	S11 MAG/ANG	S21 dB/MAG/ANG	S12 dB/MAG/ANG	S22 MAG/ANG
5	0.1220/-32	13.83/4.92/-173	-22.65/0.07/170	0.1541/40
20	0.0844/-60	14.38/5.24/169	-22.19/0.08/167	0.0734/-44
35	0.0677/-81	14.57/5.36/154	-21.89/0.08/154	0.0558/-67
50	0.0611/-95	14.60/5.37/141	-21.80/0.08/141	0.0542/-68
65	0.0584/-107	14.55/5.34/128	-21.88/0.08/128	0.0647/-67
80	0.0582/-119	14.52/5.32/115	-22.02/0.08/115	0.0799/-72
95	0.0597/-130	14.46/5.29/102	-22.25/0.08/101	0.0938/-82
110	0.0626/-143	14.46/5.29/89	-22.56/0.07/89	0.1014/-92
125	0.0665/-158	14.40/5.25/75	-22.93/0.07/76	0.0984/-102

Pin Configuration

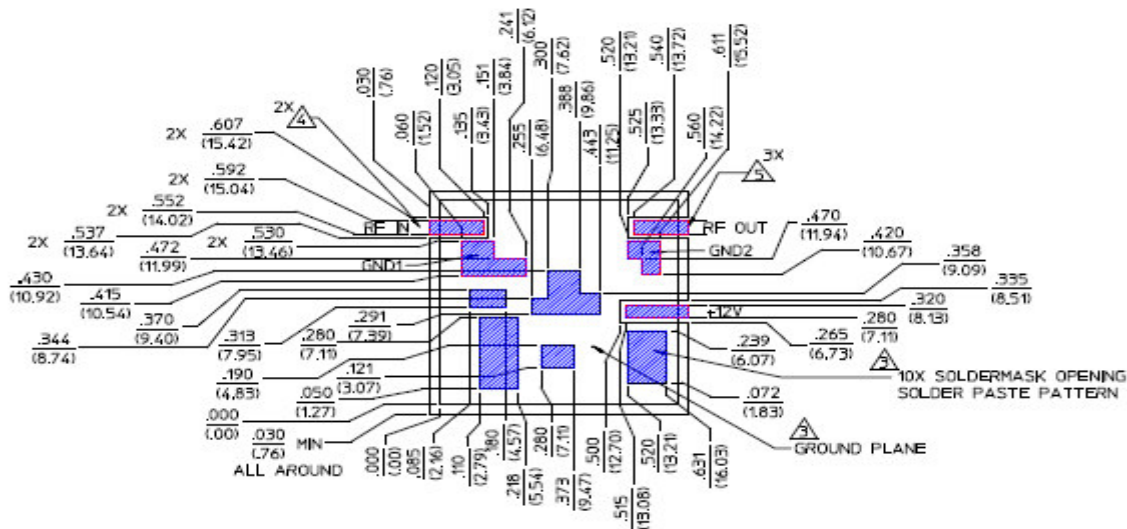
Pin No.	Function	Pin No.	Function
1	RF IN	6	V _{bias}
2	GND 1	7	GND 2
3	GND	8	RF OUT
4	GND	9	GND
5	VDC	10	GND

Absolute Maximum Ratings ¹

Parameter	Absolute Maximum
Max. Input Power	+15 dBm
V _{bias}	-0.5 to +14.0 V
Operating Temperature	-40°C to +85°C
Storage Temperature	-65°C to +125°C

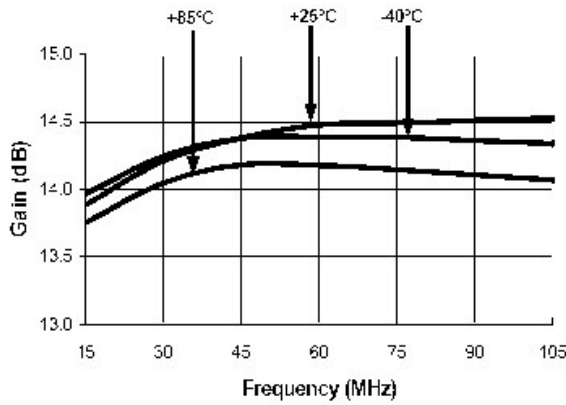
1. Operation of this device above any one of these parameters may cause permanent damage.

Recommended Board Layout

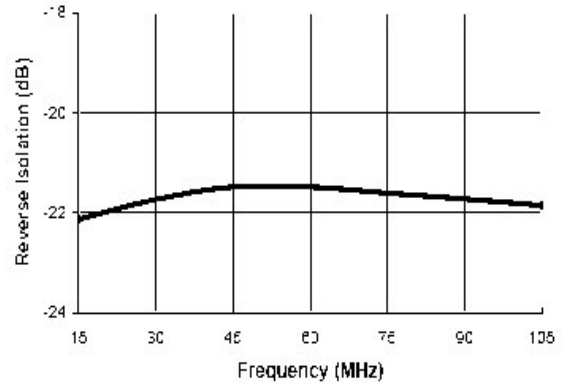


Typical Performance Curves

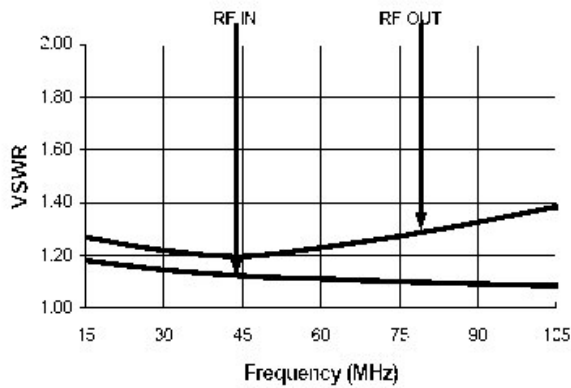
Gain vs. Frequency



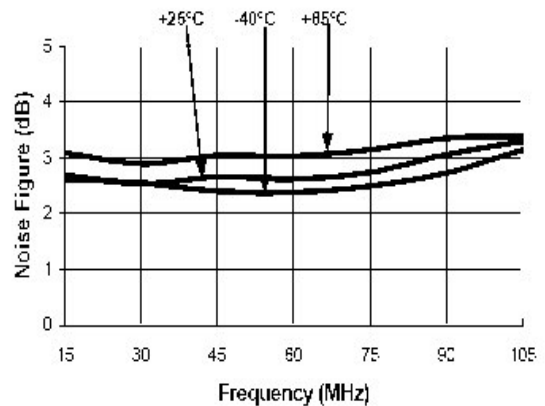
Reverse Isolation vs. Frequency



VSWR vs. Frequency



Noise Figure vs. Frequency



Ordering Information

Part Number	Package
AM05-0005	Bulk Packaging
AM05-0005TR	Tape and Reel (1K Reel)
AM05-0005-TB	Device provided on Test Board