

RF AMPLIFIER

Available as: RN6535, 4 Pin Surface Mount (SM19)
BR6535, Connectorized Housing (H2)

MODEL TR6535

Features

- High Gain: 32.5 dB Typical
- Low Noise: 2 dB Typical
- High Power: +22 dBm Typical

Specifications

CHARACTERISTIC	TYPICAL Ta = 25 °C	MIN/MAX Ta = -55 °C to +85 °C
Frequency	10 - 400 MHz	10 - 400 MHz
Gain (dB)	32.5	30.0 Min.
Power @ 1 dB Comp. (dBm)	+22	+20.0 Min.
Reverse Isolation (dB)	- 36	- 35 Max.
VSWR In	1.75:1	2.5:1 Max.
VSWR Out	1.5:1	2.5:1 Max.
Noise figure (dB)	1.8	3.0 Max.
Power Vdc	+15	+15
mA	90	100 Max.

Note: Care should always be taken to effectively ground the case of each unit.

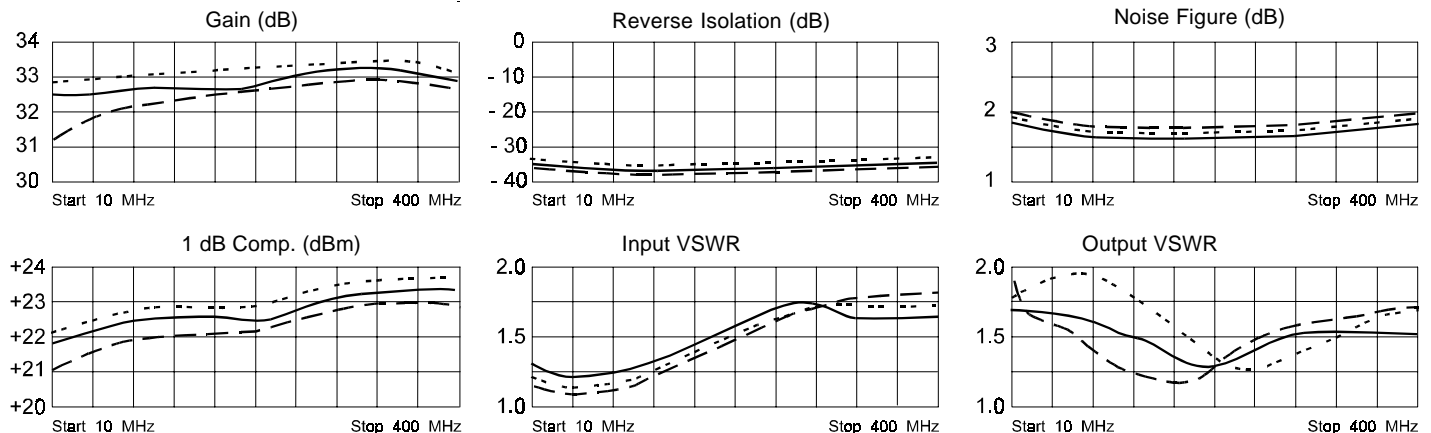
Typical Intermodulation Performance at 25 °C

Second Order Harmonic Intercept Point +54 (Typ.)
Second Order Two Tone Intercept Point +48 (Typ.)
Third Order Two Tone Intercept Point +37 (Typ.)

Maximum Ratings

Ambient Operating Temperature -55°C to + 100 °C
Storage Temperature -62°C to + 125 °C
Case Temperature + 125 °C
DC Voltage + 18 Volts
Continuous RF Input Power + 20 dBm
Short Term RF Input Power 200 Milliwatts
(1 Minute Max.)
Maximum Peak Power 0.5 Watt
3 μsec Max.)

Typical Performance Data



Legend ——— + 25 °C - - - + 85 °C -55 °C

Linear S-Parameters

FREQ. MHz	S11		S21		S12		S22	
	Mag	Deg	Mag	Deg	Mag	Deg	Mag	Deg
10	.11	-117	42.18	12	.01	13	.26	5
50	.07	-154	42.28	-22	.01	-18	.23	-23
100	.06	-136	42.36	-49	.01	-51	.17	-51
200	.18	-134	42.67	-101	.01	-121	.01	-21
300	.24	-167	42.80	-156	.01	-164	.14	-3
400	.25	-178	40.98	142	.02	139	.17	-123

Amplifonix

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