

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.
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.

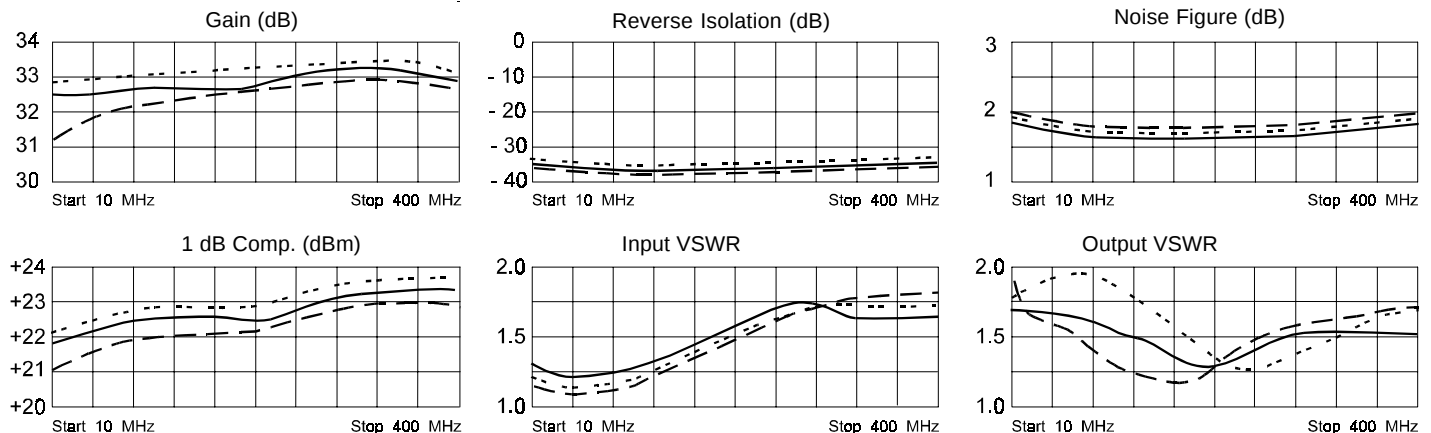
Typical Intermodulation Performance at 25 °C

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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