

RF AMPLIFIER

MODEL TR9770

Available as: TR9770, 4 Pin TO-8B (T8)
 TR9770-9, 12 Pin TO-8B (T9)
 RN9770, 4 Pin Surface Mount (SM19)
 BR9770, Connectorized Housing (H2)

Features

- Low Noise Figure: 1dB Typical
- Unconditionally Stable
- Operating Temp. - 55 °C to +85 °C
- Environmental Screening Available

Specifications

CHARACTERISTIC	TYPICAL Ta= 25 °C	MIN/MAX Ta = -55 °C to +85 °C
Frequency (MHz)	800-1200 MHz	800-1200 MHz
Gain (dB)	25	24 Min.
Power @ 1 dB Comp. (dBm)	+14	+13 Min.
Reverse Isolation (dB)	- 38	- 36 Max.
VSWR In	1.8:1	2.0:1 Max.
Out	1.8:1	2.0:1 Max.
Noise figure (dB)	1.0	1.75 Max.
Power Vdc	+15	+15
mA	62	65 Max.

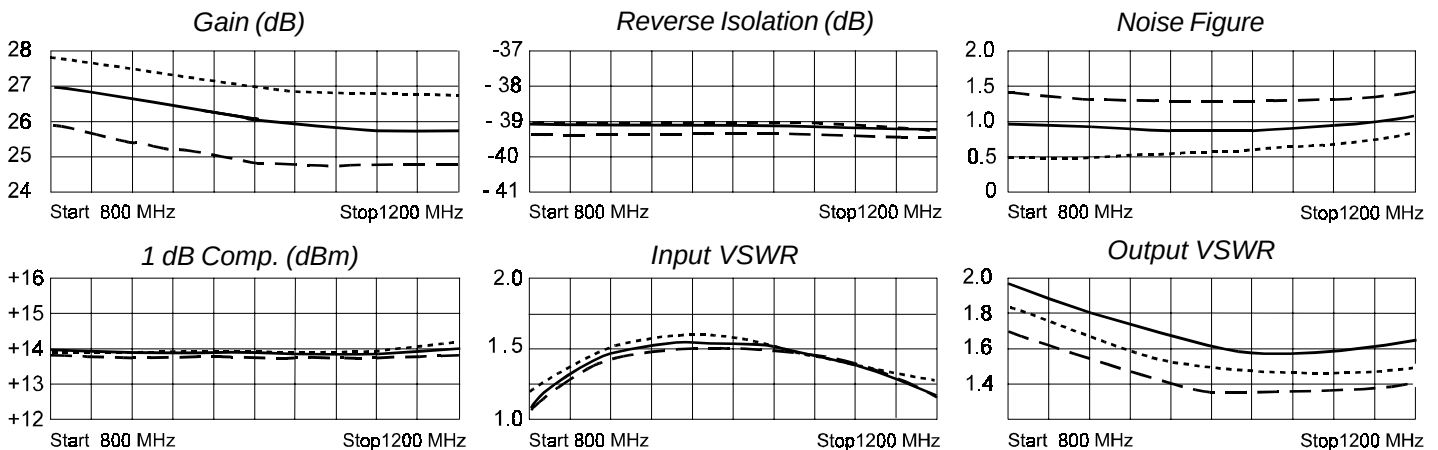
Note: Care should always be taken to effectively ground the case of each unit.

Typical Intermodulation Performance at 25 °C
 Second Order Harmonic Intercept Point +46dBm (Typ.)
 Second Order Two Tone Intercept Point +40dBm (Typ.)
 Third Order Two Tone Intercept Point +25dBm (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.....+ 13 dBm
 Short Term RF Input Power..... 200 Milliwatts
 (1 Minute Max.)
 Maximum Peak Power..... 0.5 Watt
 (3 µsec Max.)

Typical Performance Data



Linear S-Parameters

FREQ. MHz	S11		S21		S12		S22		K	Del
	Mag	Deg	Mag	Deg	Mag	Deg	Mag	Deg		
800	.21	157	21.01	-128	.0100	27	.26	29	2.21	.20
900	.30	139	19.59	-160	.0104	11	.20	13	2.22	.18
1000	.29	115	18.96	171	.0093	-19	.16	1	2.58	.14
1100	.25	82	18.61	143	.0111	-42	.14	-14	2.30	.18
1200	.23	30	18.79	113	.0110	-66	.11	-38	2.36	.19

Amplifonix

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