

RF AMPLIFIER

MODEL *TR9755*

Available as: TR9755, 4 Pin TO-8B (T8)
 TR9755-9, 12 Pin TO-8B (T9)
 RN9755, 4 Pin Surface Mount (SM19)
 BR9755, Connectorized Housing (H2)

Features

- Low Noise Figure: 1 dB Typical
- Low 5 Volt Operation
- 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)	26	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	+5	+5
mA	62	65 Max.

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

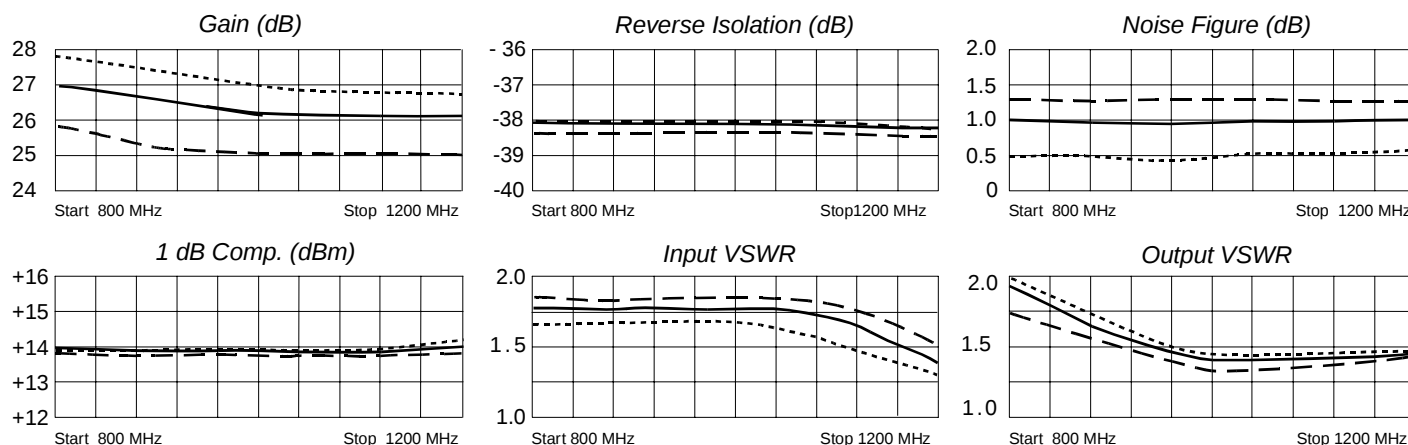
Typical Intermodulation Performance at 25 °C

Second Order Harmonic Intercept Point +46 dBm (Typ.)
 Second Order Two Tone Intercept Point +40 dBm (Typ.)
 Third Order Two Tone Intercept Point +25 dBm (Typ.)

Maximum Ratings

Ambient Operating Temperature -55°C to + 100 °C
 Storage Temperature -62°C to + 125 °C
 Case Temperature + 125 °C
 DC Voltage + 8 Volts
 Continuous RF Input Power + 13 dBm
 Short Term RF Input Power ... 200 Milliwatts (1 Minute Max.)
 Maximum Peak Power 0.5 (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
800	.18	-116	22.80	-128	.0099	32	.23	37
900	.19	-167	21.58	-158	.0107	14	.19	15
1000	.15	159	20.93	173	.0104	-9	.17	-9
1100	.07	111	20.39	147	.0105	-30	.17	-36
1200	.10	-11	20.39	118	.0102	-53	.18	-67



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