

RF AMPLIFIER

MODEL CZ8405

Available as: CZ8405, 4 Pin TO-12 (T7)
 TN8405, 4 Pin Surface Mount (SM3)
 BX8405, Connectorized Housing (H1)

Features

- Lower Cost
- High Output Power: +20.5 dBm Typical
- Operating Temp. 0 °C to +70 °C
- Environmental Screening Available

Specifications

CHARACTERISTIC	TYPICAL Ta= 25 °C	MIN/MAX Ta = 0 °C to +70 °C
Frequency	5 - 400 MHz	5 - 400 MHz
Gain (dB)	16.0	14.5 Min.
Power @ 1 dB Comp. (dBm)	+20.5	+16.0 Min.
Reverse Isolation (dB)	- 20	-19 Max.
VSWR In	1.75:1	2.0:1 Max.
Out	1.75:1	2.0:1 Max.
Noise figure (dB)	5.5	7.0 Max.
Power Vdc	+15	+15
mA	90	100 Max.

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

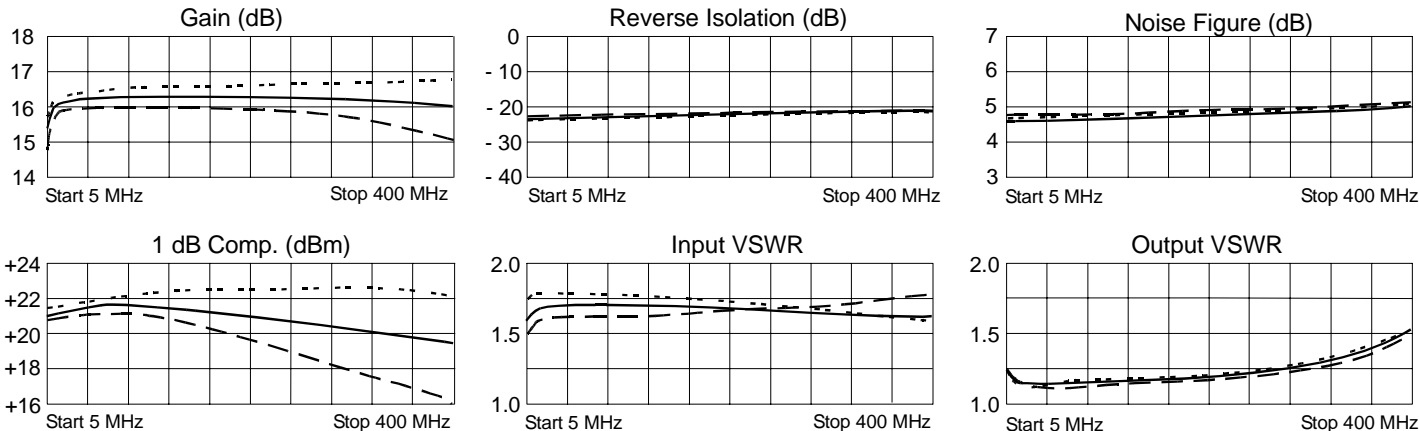
Typical Intermodulation Performance at 25 ° C

Second Order Harmonic Intercept Point.....+40 dBm (Typ.)
 Second Order Two Tone Intercept Poin.....+35 dBm (Typ.)
 Third Order Two Tone Intercept Point.....+32 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 + 18 Volts
 Continuous RF Input Power + 13 dBm
 Short Term RF Input Power 50 Milliwatts (1 Minute Max.)
 Maximum Peak Power 0.5 Watt (3 µsec Max.)

Typical Performance Data



Legend ——— +25 °C - - - - +70 °C ······ 0 °C

Linear S-Parameters

Freq. MHz	---S11---		---S21---		---S12---		---S22---	
	Mag	Deg	Mag	Deg	Mag	Deg	Mag	Deg
5	.23	-164	5.81	-172	.07	9	.10	126
50	.26	179	6.40	169	.07	2	.05	6
100	.25	176	6.41	156	.07	4	.06	-27
200	.25	171	6.41	131	.08	6	.08	-86
300	.24	170	6.39	105	.09	4	.13	-130
400	.25	169	6.23	76	.09	3	.21	-177
500	.27	165	5.76	46	.10	-3	.33	144

