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 ºC to +70 ºC
- Environmental Screening Available

Typical Intermodulation Performance at 25 º 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.)

Specifications

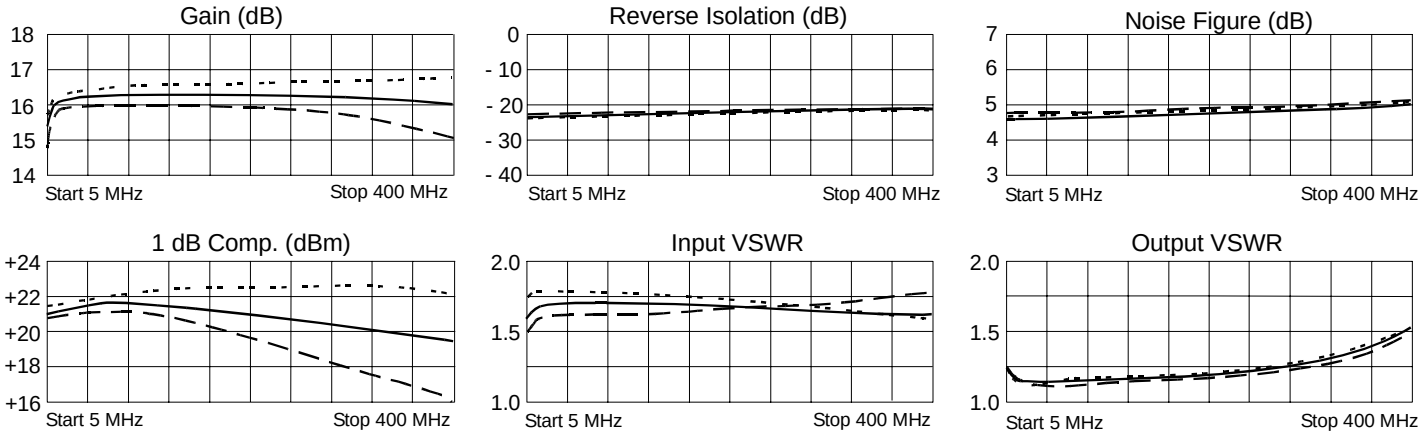
CHARACTERISTIC	TYPICAL Ta= 25 ºC	MIN/MAX Ta = 0 ºC to +70 ºC
Frequency	5 - 400 MHz	5 - 400 MHz
Gain (dB)	16.0	14.5 Min.
Power @ 1 dB Comp. (dBm)	+20.5	+16.0 Min.
Reverse Isolation (dB)	- 20	-19 Max.
VSWR In	1.75:1	2.0:1 Max.
Out	1.75:1	2.0:1 Max.
Noise figure (dB)	5.5	7.0 Max.
Power Vdc	+15	+15
mA	90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

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

Maximum Ratings

Ambient Operating Temperature ..... -55ºC to + 100 ºC
Storage Temperature ..... -62ºC to + 125 ºC
Case Temperature ..... + 125 ºC
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 ºC* – – – *+70 ºC* - - - - - - *0 ºC*

Linear S-Parameters

Freq. MHz	----S11---- Mag	Deg	----S21---- Mag	Deg	----S12---- Mag	Deg	----S22---- 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

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