

Wideband Microwave Amplifier 50 MHz-3 GHz

ZHM 50-3G-1

Power Output 1000 mW

Features

- Wireless Data, Satellite Terminals

Applications

- PA Driver Amplifier
- Cellular, PCS, GSM, UMTS
- Wideband Instrumentation
- Wireless Data, Satellite Terminals



Parameter				Unit	Condition
	Min.	Typ.	Max.		
Small Signal Gain	35	36	36	dB	850MHz
	33	34	33	dB	1950MHz
	24	25	26	dB	6000MHz
Output Power at 1dB Compression		30		dBm	850MHz
	32	33		dBm	1950MHz
Third Order Intercept Point		38.5		dBm	850MHz
	33.0	35.0		dBm	1950MHz
Bandwidth		3000		MHz	Min. 10dB return loss (typ.)
Input Return Loss	10.0	13.0		dB	1950MHz
Output Return Loss	10.0	14.0		dB	1950MHz
Reverse Isolation		23.3		dB	1950MHz
Noise Figure		3.9	4.9	dB	1950MHz

Typical Performance at Key Operating Frequencies (0.5GHz to 3.0GHz Application Circuit)

Parameter	Specification			Unit	Condition
	Min.	Typ.	Max.		
Small Signal Gain		35		dB	50MHz
		34		dB	100MHz
		33		dB	200MHz
		36		dB	500MHz
		33		dB	850MHz
		2		dB	1950MHz
		30		dB	2500MHz
		28		dB	3500MHz
		27		dB	4000MHz
		25			6000 MHz
Output Third Order Intercept Point		42		dBm	50 MHz
		44		dBm	100MHz
		42		dBm	200MHz
		43		dBm	500MHz
		44		dBm	850MHz
		44		dBm	1950MHz
		32.8		dBm	2500MHz
		39		dBm	3500MHz
		38		dBm	4000MHz
		37			6000 MHz
Output Power at 1dB Compression		29.5		dBm	50MHz
		33		dBm	100MHz
		32		dBm	200MHz
		32		dBm	500MHz
		28		dBm	850MHz
		26		dBm	1950MHz
		24		dBm	2500MHz
		24		dBm	3500MHz
		24		dBm	4000MHz
		23			6000 MHz