

## RF MOSFET Amplifier Module 10 MHz-3300 MHz

**AMP- 1033/B**

Power Output 0.2W

### Features

- Wireless Data, Satellite Terminals, exciter for small digital transmitters DVB-T, COFDM

### Applications

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



### Electrical Characteristics (T<sub>case</sub>=+25 °C, Z<sub>G</sub>=Z<sub>L</sub>=2W, unless otherwise specified)

SYMBOL	PARAMETER	CONDITIONS	MIN	TY P	MAX	UNIT
f	Frequency Range		10	-	3300	MHz
P <sub>out</sub>	Output Power	V <sub>DD</sub> =12V, P <sub>in</sub> =0dBm	0.1	-	0.25	W
τ	Total Efficiency	P <sub>out</sub> =0.2W (V <sub>GG</sub> control), V <sub>DD</sub> =12V, P <sub>in</sub> =0dBm	42	-	-	%
2f <sub>o</sub>	2 <sup>nd</sup> Harmonic		-	-	-22	dBc
in	Input VSWR		-	-	4:1	—
S/N	Noise		4	-	4.5	dB
—	Stability	V <sub>DD</sub> =12V, P <sub>in</sub> =1mW P <sub>out</sub> <0.25W	No parasitic oscillation			—
—	Load VSWR Tolerance	V <sub>DD</sub> =12V, P <sub>in</sub> =1mW, P <sub>out</sub> =0.25W	No degradation or destroy			—

## Typical RF Performance at Key Operating Frequencies

Symbol	Parameter	Unit	Frequency (MHz)					
			100	500	850	1950	2400	3500
G	Small Signal Gain	dB	28.4	27.1	25.2	19.8	18.2	15.1
OIP <sub>3</sub>	Output Third Order Intercept Point	dBm		32.1	32.5	32.0	30.3	
P <sub>1dB</sub>	Output Power at 1dB Compression	dBm		21.6	21.5	19	17.8	
IRL	Input Return Loss	dB	13.9	15.0	15.6	13.1	12.4	11.4
ORL	Output Return Loss	dB	16.1	13.5	11.4	9.2	9.4	10.6
S <sub>12</sub>	Reverse Isolation	dB	30.3	29.8	28.7	24.3	23.1	19.2
NF	Noise Figure	dB		2.5	2.5	2.9	3.3	

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