

RF MOSFET Amplifier Module 68 MHz-90 MHz

AMP- 0609/7

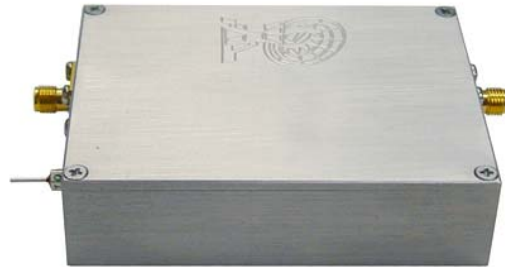
Power Output 7 W

Features

- Wireless Data, Satellite Terminals

Applications

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

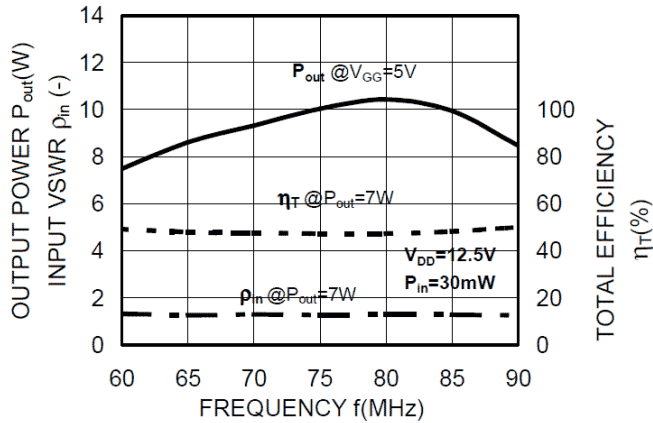


Electrical Characteristics (Tcase=+25 °C, Z G=ZL=50W, unless otherwise specified)

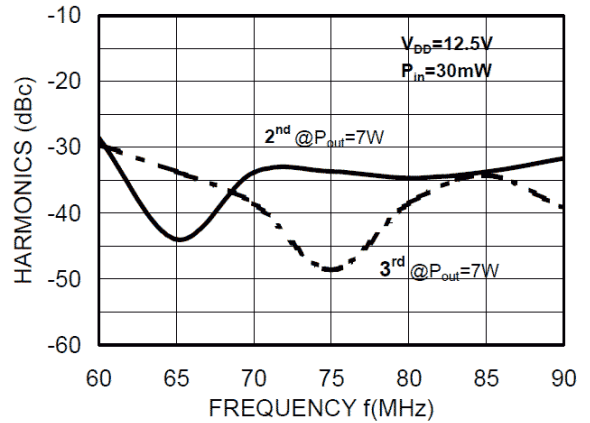
SYMBOL	PARAMETER	CONDITIONS	MIN	TYP	MAX	UNIT
f	Frequency Range		68	-	88	MHz
P _{out}	Output Power	V _{DD} =12.5V, V _{GG} =5V, P _{in} =30mW	7	-	-	W
τ	Total Efficiency	P _{out} =7W (V _{GG} control), V _{DD} =12.5V, P _{in} =30mW	38	-	-	%
2f _o	2 nd Harmonic		-	-	-18	dBc
in	Input VSWR		-	-	4:1	—
I _{GG}	Gate Current		-	1	-	mA
—	Stability	V _{DD} =7.2-13.2V, P _{in} =15-50mW, P _{out} <8W (V _{GG} control), Load VSWR=4:1	No parasitic oscillation			—
—	Load VSWR Tolerance	V _{DD} =13.2V, P _{in} =30mW, P _{out} =7W (V _{GG} control), Load VSWR=20:1	No degradation or destroy			—

TYPICAL PERFORMANCE ($T_{case}=+25^{\circ}C$, $Z_G=Z_L=50\Omega$, unless otherwise specified)

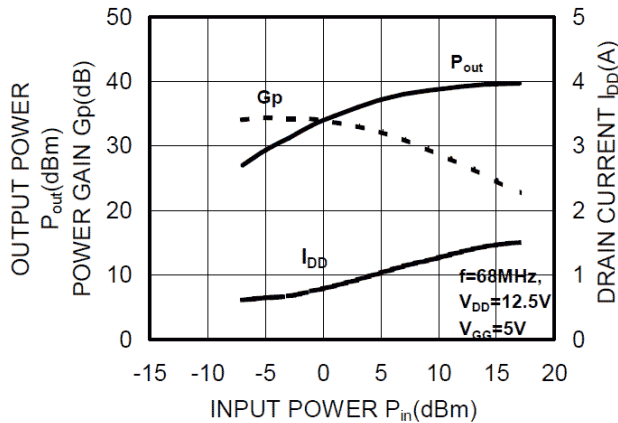
OUTPUT POWER, TOTAL EFFICIENCY, and INPUT VSWR versus FREQUENCY



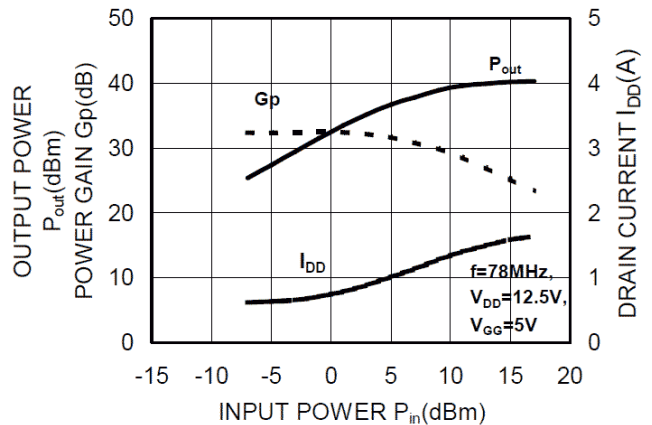
2nd, 3rd HARMONICS versus FREQUENCY



OUTPUT POWER, POWER GAIN and DRAIN CURRENT versus INPUT POWER



OUTPUT POWER, POWER GAIN and DRAIN CURRENT versus INPUT POWER



OUTPUT POWER, POWER GAIN and DRAIN CURRENT versus INPUT POWER

