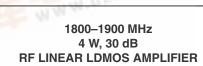
digitaldna

SEMICONDUCTOR TECHNICAL DATA

RF Linear LDMOS Amplifier Designed for ultra-linear amplifier applications in 50 ohm systems operating in the PCS frequency band. A silicon FET Class A design provides outstanding

linearity and gain. In addition, the excellent group delay and phase linearity characteristics are ideal for digital modulation systems, such as TDMA and CDMA.

- Third Order Intercept: 46 dBm Typ
- Power Gain: 30 dB Typ (@ f =1850 MHz) •
- Excellent Phase Linearity and Group Delay Characteristics •
- Ideal for Feedforward Base Station Applications



MHL18336



ABSOLUTE MAXIMUM RATINGS (T_C = 25°C unless otherwise noted)

Rating	Symbol	Value	Unit	
DC Supply Voltage	V _{DD}	30 30	Vdc	
RF Input Power	Pin	+10	dBm	
Storage Temperature Range	T _{stg}	-40 to +100	°C	
Operating Case Temperature Range	T _C	-20 to +100	°C	

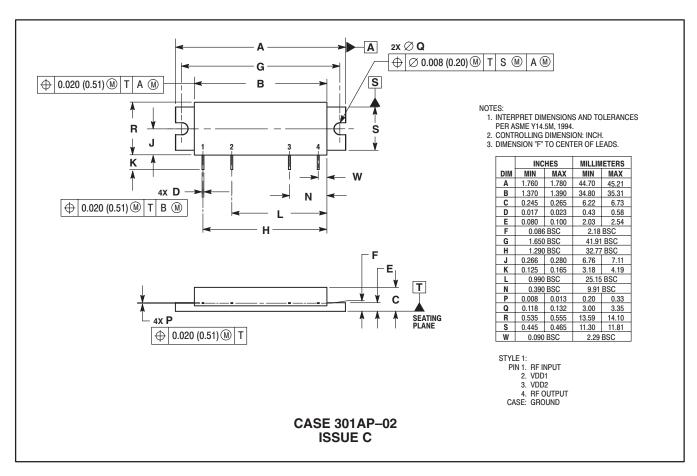
ELECTRICAL CHARACTERISTICS (V_{DD} = 26 Vdc, T_C = 25°C; 50 Ω System)

Characteristic		Symbol	Min	Тур	Max	Unit
Supply Current		I _{DD}	_	500	525	mA
Power Gain	(f =1850 MHz)	Gp	29	30	31	dB
Gain Flatness	(f = 1800–1900 MHz)	G _F	-F	0.2	0.4	dB
Power Output @ 1 dB Comp.	(f = 1850 MHz)	Pout 1 dB	35	36	0	dBm
Input VSWR	(f = 1800–1900 MHz)	VSWR _{in}	_	1.2:1	1.5:1	
Third Order Intercept (f1 = 1847 MHz, f2 = 1852 MHz)		ITO	45	46	—	dBm
Noise Figure	(f = 1850 MHz)	NF	_	4.2	4.5	dB



MOT GROLA 36供应商 Freescale Semicon auctor Binc. , 24小时加急出货 by MHL18336/D

Freescale Semiconductor, Inc.



PACKAGE DIMENSIONS

Motorola reserves the right to make changes without further notice to any products herein. Motorola makes no warranty, representation or guarantee regarding the suitability of its products for any particular purpose, nor does Motorola assume any liability arising out of the application or use of any product or circuit, and specifically disclaims any and all liability, including without limitation consequential or incidental damages. "Typical" parameters which may be provided in Motorola data sheets and/or specifications can and do vary in different applications and actual performance may vary over time. All operating parameters, including "Typicals" must be validated for each customer application by customer's technical experts. Motorola does not convey any license under its patent rights nor the rights of others. Motorola products are not designed, intended, or authorized for use as components in systems intended for surgical implant into the body, or other applications intended to support or sustain life, or for any other application in which the failure of the Motorola product could create a situation where personal injury or death may occur. Should Buyer purchase or use Motorola products for any such unintended or unauthorized application, Buyer shall indemnify and hold Motorola and its officers, employees, subsidiaries, affiliates, and distributors harmless against all claims, costs, damages, and expenses, and reasonable attorney fees arising out of, directly or indirectly, any claim of personal injury or death associated with such unintended or unauthorized use, even if such claim alleges that Motorola was negligent regarding the design or manufacture of the part. Motorola, Inc. Notorola, Inc. is an Equal Opportunity/Affirmative Action Employee. MOTOROLA and the **W** logo are registered in the US Patent & Trademark Office. All other product or service names are the property of their respective owners.

© Motorola, Inc. 2002.

How to reach us:

USA/EUROPE/Locations Not Listed: Motorola Literature Distribution; P.O. Box 5405, Denver, Colorado 80217. 1–303–675–2140 or 1–800–441–2447

JAPAN: Motorola Japan Ltd.; SPS, Technical Information Center, 3–20–1, Minami–Azabu. Minato–ku, Tokyo 106–8573 Japan. 81–3–3440–3569

ASIA/PACIFIC: Motorola Semiconductors H.K. Ltd.; Silicon Harbour Centre, 2 Dai King Street, Tai Po Industrial Estate, Tai Po, N.T., Hong Kong. 852–26668334

Technical Information Center: 1-800-521-6274

HOME PAGE: http://www.motorola.com/semiconductors/