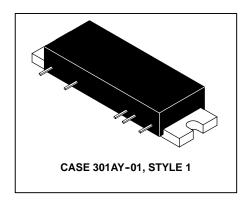
The RF Line PCS Band RF Linear LDMOS Amplifier

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, EDGE and CDMA.

- · Third Order Intercept Point: 50 dBm Typ
- Power Gain: 29.4 dB Typ (@ f = 1960 MHz)
- Excellent Phase Linearity and Group Delay Characteristics
- · Ideal for Feedforward Base Station Application

MHL19926

1930-1990 MHz, 10 W, 29.4 dB RF LINEAR LDMOS AMPLIFIER



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

Rating	Symbol	Value	Unit
DC Supply Voltage	V_{DD}	30	Vdc
RF Input Power	Pin	+17	dBm
Storage Temperature Range	T _{stg}	-40 to +100	°C
Operating Case Temperature Range	T _C	-20 to +100	°C

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

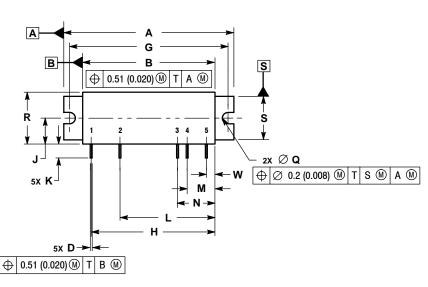
Character	Symbol	Min	Тур	Max	Unit	
Supply Current		I _{DD}	_	1	1.05	А
Power Gain	(f = 1960 MHz)	Gp	28.4	29.4	30.4	dB
Gain Flatness	(f = 1930-1990 MHz)	G _F	_	0.3	0.5	dB
Power Output @ 1 dB Compression	(f = 1960 MHz)	P1 dB	39	40	_	dBm
Input VSWR	(f = 1930-1990 MHz)	VSWR _{in}	_	1.2:1	1.5:1	
Third Order Intercept (f1 =1957 MHz, f2=196		ITO	49.5	50	_	dBm
Noise Figure	(f = 1990 MHz)	NF	_	4.2	5	dB

NOTE - <u>CAUTION</u> - MOS devices are susceptible to damage from electrostatic charge. Reasonable precautions in handling and packaging MOS devices should be observed.



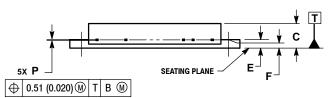


PACKAGE DIMENSIONS



- 1. CONTROLLING DIMENSION: MILLIMETER.
- INTERPRET DIMENSIONS AND TOLERANCES PER ANSI Y14.5M, 1982.
- 3. DIMENSION F TO CENTER LINE OF LEADS.

	MILLIN	IETERS	INCHES			
				1		
DIM	MIN	MAX	MIN	MAX		
Α	44.7	45.21	1.760	1.780		
В	34.8	35.31	1.370	1.390		
C	6.22	6.73	0.245	0.265		
D	0.43	0.58	0.017	0.023		
E	2.03	2.54	0.080	0.100		
F	2.18 BSC		0.086 BSC			
G	41.91 BSC		1.650 BSC			
Н	32.77 BSC		1.290 BSC			
J	6.76	7.11	0.266	0.280		
K	3.18	4.19	0.125	0.165		
L	25.15	25.15 BSC		BSC		
M	7.37	BSC	0.290 BSC			
N	9.91	BSC	0.390	BSC		
P	0.2	0.33	0.008	0.013		
Q	3	3.35	0.118	0.132		
R	13.59	14.1	0.535	0.555		
S	11.3	11.81	0.445	0.465		
W	2.29	2.29 BSC		0.090 BSC		



STYLE 1: PIN 1. RF INPUT

2. VDD1 3. VDD2

4. VDD3 5. RF OUTPUT

CASE: GROUND

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CASE 301AY-01 ISSUE 0

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