МОТО ПОН 1916供应商 SEMICONDUCTOR TECHNICAL DATA

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by MHW1916/D

DZSC.COM The RF Line **Microwave Bipolar Power Amplifier**

- Specified 26 Volt Characteristics: RF Output Power: 15 Watts RF Power Gain: 34 dB Typ Efficiency: 24% Min
- 50 Ohm Input/Output Impedances WWW.DZSC.COM



15 W 1930-1990 MHz **RF POWER AMPLIFIER**



MAXIMUM RATINGS (Flange Temperature = 25°C)

Rating	Symbol	Value	Unit
DC Supply Voltage	VS	28	Vdc
DC Bias Voltage	VB	5.5	Vdc
RF Input Power	Pin	17	dBm
RF Output Power	Pout	23	W
Operating Case Temperature Range	TC	-30 to +95	O°C
Storage Temperature Range	T _{stg}	-30 to +100	°C

ELECTRICAL CHARACTERISTICS ($V_S = 26 \text{ Vdc}; V_{B|\Delta S} = 5 \text{ Vdc}; T_C = +25^{\circ}\text{C}; 50 \Omega \text{ system}$)

Characteristic	Symbol	Min	Тур	Max	Unit
Frequency Range	BW	1930	—	1990	MHz
Total Quiescent Current (Pin = 0 mW)	I _q	—	300	_	mA
Power Gain (P _{out} = 15 W) (1)	Gp	31	34	38	dB
Output Power at 1 dB Compression	P1dB	15	—	_	Watts
Efficiency (1 dB Compression Power)	η	24	27		%
Input VSWR (P _{out} = 15 W)	VSWRIN			2:1	1014
Ripple (P _{out} = 15 W)	Rp		- 1	2	dB
Gain Variation at any given Frequency over Output Power (1 mW \leq P _{out} \leq 15 W)	∆Gp		1	2.4	dB
Load Mismatch Stress (P _{out} = 15 W; Load VSWR = 3:1; at All Phase Angles)	Ψ	No Degradation in Output Power			
Stability (P _{out} = 1 mW – 15 W; Load VSWR = 2:1; at All Phase Angles except Harmonics)		All Spurious Outputs More than 60 dB Below Desired Signal			
Stability (Pout = 1 mW – 15 W; Load VSWR = 2:1; f = 1930 – 1990 MHz; at All Phase Angles)		All Spurious Outputs Typically Lower than -36 dBm			

(1) Adjust Pin for specified Pout.





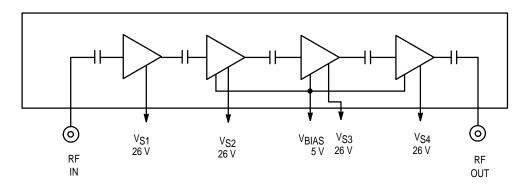
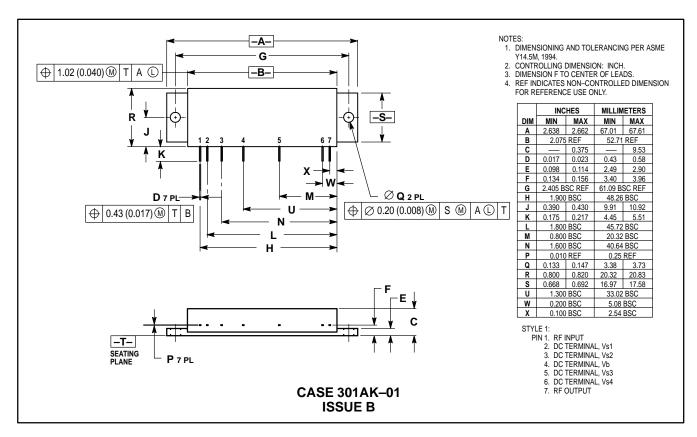


Figure 1. Internal Diagram

PACKAGE DIMENSIONS



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