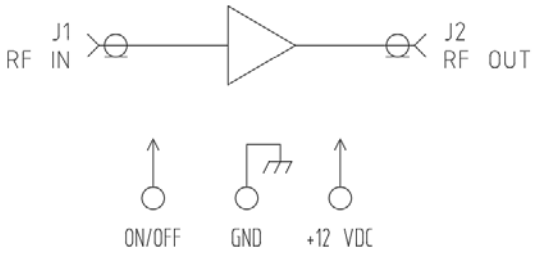
DAMH9357
800 - 2000MHz/5W High Power Amplifier

FEATURES

GaAs Technology
Operating Frequency: 800 – 2000MHz
Power Output: 5W
P_{1dB} Power: 4W Min
Small Signal Gain: 34 dB Min
Gain Variation Over Freq. & Temp: ±1.5dB Max
VSWR (Input & Output): 2.0:1 Max
Power Consumption: 1.5A at +12VDC Typical
Operating Voltage: +10VDC to +15VDC
Input Survivability +20dBm
On/Off Control: Low or NC "ON"
Options: Connectorized or Drop-in

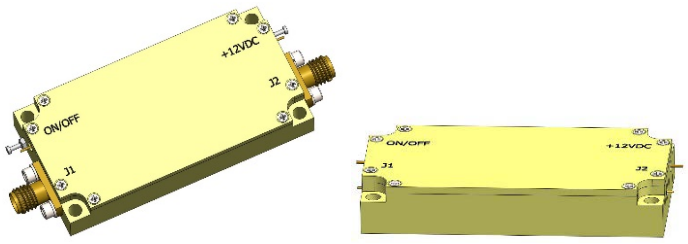
APPLICATIONS: Generic Broadband Applications

FUNCTIONAL BLOCK DIAGRAM



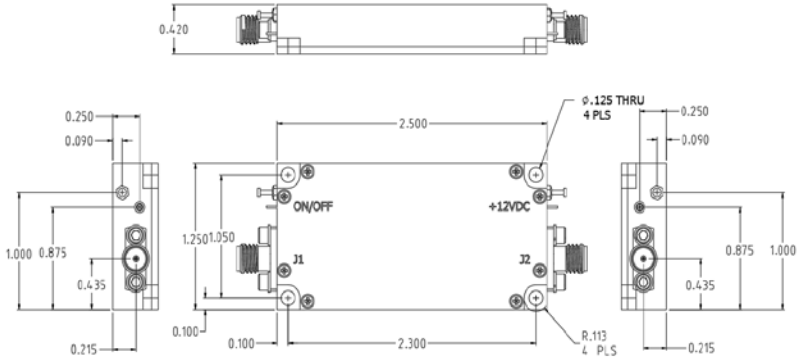
PRODUCT SPECIFICATION

Parameter	Min.	Typ.	Max.	Units	Notes
Frequency	800		2000	MHz	
Output P_{1dB}	36.0	36.5		dBm	CW
Output P_{SAT}	37.0			dBm	CW
Small Signal Gain	34	35	36	dB	at P_{1dB}
Gain Variation		±1.2	±1.5	dB	Over Freq. & Temp
Input Power			20	dBm	
Noise Figure		7	10		
IP_3	54	56		dBm	PA Linearity
PAE	22	24		%	at P_{1dB}
ON/OFF Control		TTL		V	L or NC=On; H=Off
ON/OFF Time			200	ns	
Input VSWR		1.3:1	2.0:1		
Output VSWR		1.7:1	2.0:1		
Impedance		50		Ohms	
DC Voltage	+10	+12	+15	V	
DC Current		1.50	2.0	A	at +12VDC
DIM		2.50"x1.25"x0.42"		Inch	Connector/Drop-in
Weight		100	125	g	
Operating Base Temp.	-20	+40	+85	°C	

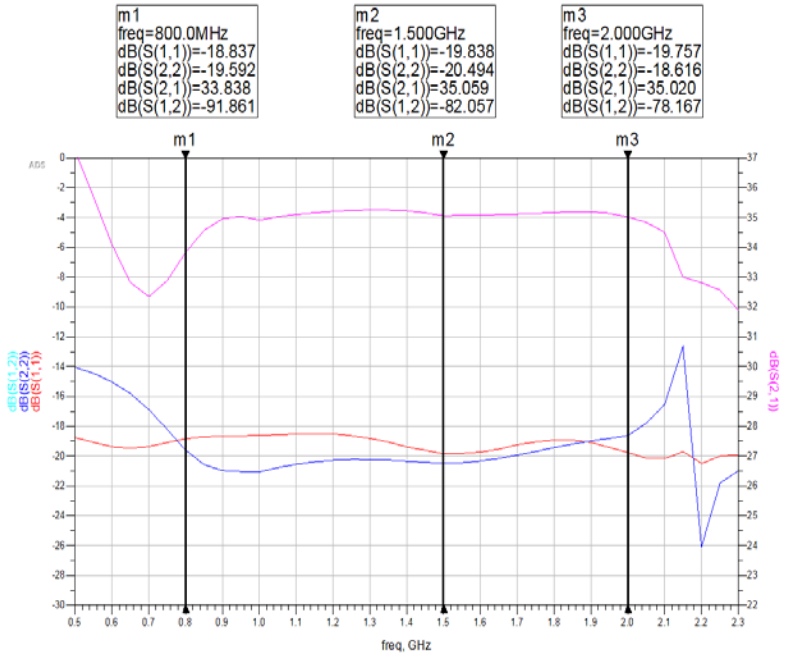


Q4 2023

OUTLINE DRAWING



TYPICAL PERFORMANCE



Simulation Plots

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