

AC1H-01A

5150~5850MHz 100W HPA



General Description

The AC1H-01A is a general HPA module that have high linearity & gain performance. The module features a flat high gain with excellent current consumption.



Applications

- Drone jammer
- Car-mount jammer
- Wi-Fi system
- Wireless power transfer
- Scientific measurement system
- EMC/EMI test

Electrical Specification

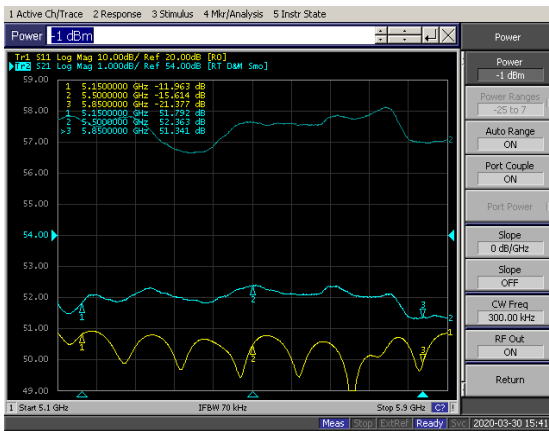
Parameter	Specification	Comment
Frequency	5150 ~ 5850MHz	
Output Power	50dBm	Psat
Gain Flatness	± 1.5 dB	Psat
Input Power for rated output power	0	Typ.
Input Return Loss	-10 dB	
Quiescent Current	4A	
Current Consumption	12A	Typ. @50dBm
Harmonic level	-30dBc	2nd @ 50dBm
	-60dBc	3rd @ 50dBm

Power / Data Connector, D-sub 15pin, Male

Pin	Specification	Comment
1	Shutdown	TTL Logic Low (0V)
3	$0.86V_{DC}$	Temp. Out @ 10mV/°C+500mV
4	$1.58V_{DC}$	Forward Out @ 50mV/dB
5,6,12,13	GND	
7,8,14,15	+28V	
2,9,10,11	N/C	

Performance Plot

Plot 1 - Small Signal and P_{SAT}
Top Curve: Small Signal Gain @ $P_{IN} = -20\text{dBm}$
Middle Curve: P_{SAT} @ $P_{IN} = -1\text{dBm}$
Reference: 54dB, 1dB/div.
Bottom Curve: Input Return Loss
Reference: 10dB, 20dB/div.



Mechanical specification

