SAC1148

C-Band Power Amplifier Module
5.4~5.8GHz **Pre.1.0**

Features

- Frequency:5.4~5.8GHz
- Gain:18dB(Min.) 25 dB(Max.)
- $OP_{-1}dB$:36dBm
- Supply Voltage(+VDD):+8~28V
- Size:52.9mm×32mm×10mm

Typical Applications

- Microwave radio
- Telecommunication
- Test instrumentation
- Military

General Description

SAC1148 is a Power amplifier module with a typical small signal gain of 20dB and a nominal $OP_{-1}dB$ of +36dBm across the frequency range of 5.4 to 5.8GHz.

SAC1148 is integrated with SUPERAPEX proprietary GaAs MMIC amplifier chip, high frequency microelectronic assembly techniques, and high reliability design to realize optimum wideband operation.

Electrical Performance (T_A=25℃, I_D=2A,Z_O=50Ω)

Parameter	Min.	Typ.	Max.	Units
Frequency Range		5.4~5.8GHz		GHz
Gain	18	20	25	dB
Gain Flatness	—	±1.5	—	dB
Output Power for 1 dB Compression ($OP_{-1}dB$)	—	36	—	dBm
Output IP_3	—	42	—	dBm
Input VSWR	—	1.7	—	:1
Output VSWR	—	2.2	—	:1
Supply Voltage	8	—	28	V
Supply Current	—	—	2	A

Mechanical Specifications

Parameter	
Input/Output	SMA(F) Field-replaceable
Bias	Pin /Case ground
Case Material	6061 Aluminum alloy
Weight	< 50g

RoHS

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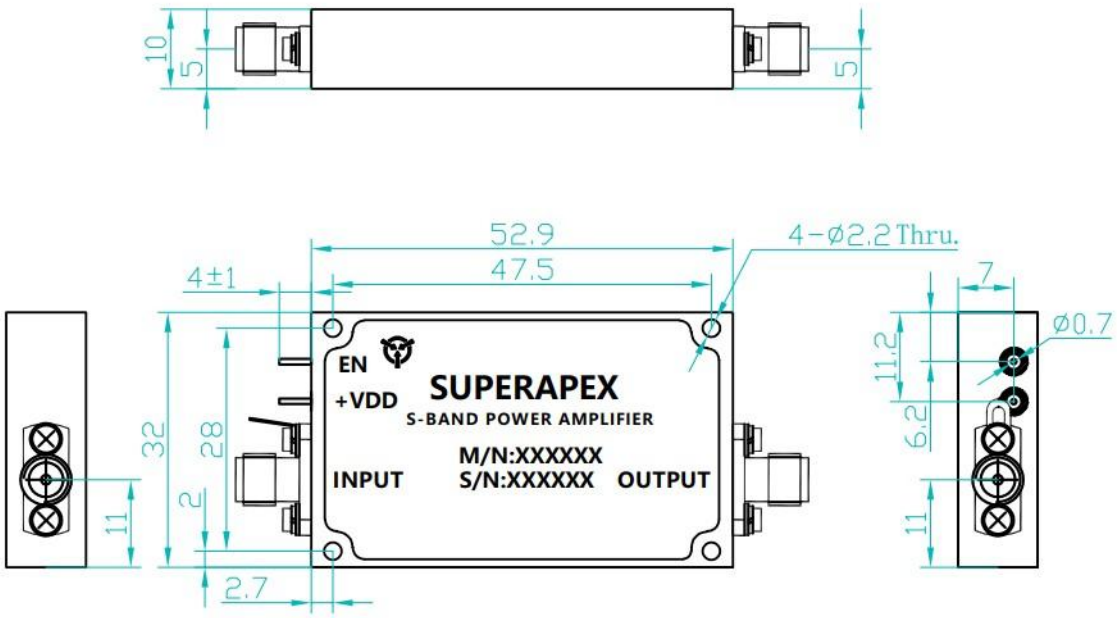
Absolute Maximum Ratings

Maximum Input Power	+27dBm	Operating Temperature	-40℃~+70℃
Maximum Supply Voltage	+15V	Storage Temperature	-55℃~+125℃

Mechanical Outline

All dimensions are in millimeters



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