

YSPA31-R3-18-S

0.3-18 GHz Power Amplifier, 31 dB Psat, SMA

Key Features

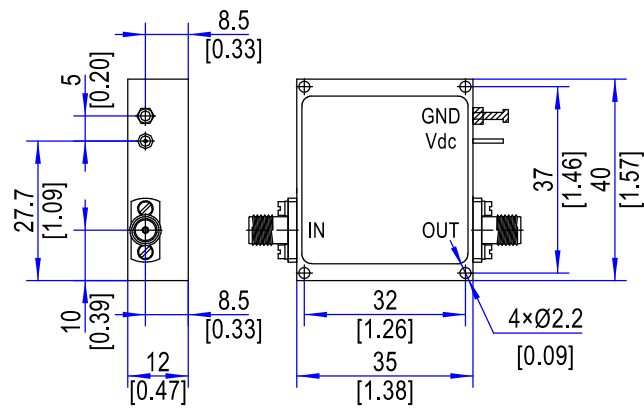
- Broadband 0.3–18 GHz coverage
- 31 dBm Psat
- Low spurious emissions
- High reliability for continuous operation
- Compact module with +12 V supply

Applications

- Broadband communication systems
- Radar transmitter subsystems
- RF test and measurement
- Electronic warfare (EW)
- Microwave research laboratories

Electrical Specifications				
Parameter	Min.	Typ.	Max.	Unit
Frequency Range	0.3	-	18	GHz
Gain	-	37	-	dB
Gain Flatness	-	±2.5	-	dB
Input VSWR	-	2.0	-	-
Output VSWR	-	2.0	-	-
Noise Figure	-	5.0	-	dB
Output P1dB	30	-	-	dBm
Output Psat	-	31	-	dBm
Second Harmonic	-	-15	-13	dBc
Spurious	-	-60	-	dBc
Input Max Power(no damage)	-	-	5	dBm
Supply Voltage	-	+12	-	V
Supply Current @ P1dB	-	0.8	0.9	A
Impedance	50			Ω
Environmental Specifications				
Operating Temperature	-25°C to +85°C			
Storage Temperature	-55°C to +125°C			
* Heat Sink required during operation				
Mechanical Specifications				
Connectors	SMA Female			
Material	Aluminium / Clear Conductive Oxide Finish			
Weight	50 g			
Dimensions ¹	35×40×12 mm [1.38×1.57×0.47 in]			

Outline Drawing (Units: mm/[inch], Tolerance: ±0.2 mm)



Note 1: Excluding Connectors