

YSPA31-18-40-K

18-40 GHz Power Amplifier, 31 dB Psat, SMA

Key Features

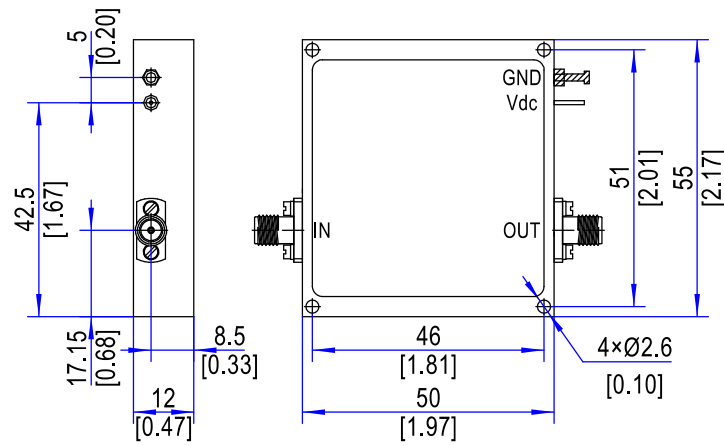
- Broadband 18–40 GHz coverage
- 31 dBm Psat
- Low spurious emissions
- High reliability for continuous operation
- Compact module with +12 V supply

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	18	-	40	GHz
Gain	33	35	-	dB
Gain Flatness	-	±2.5	±3.0	dB
Input VSWR	-	2.0	2.2	-
Output VSWR	-	2.0	2.2	-
Noise Figure	-	5.5	-	dB
Output P1dB	29	30	-	dBm
Output Psat	30	31	-	dBm
Input Max Power(no damage)	-	-	5	dBm
Supply Voltage	-	+12	-	V
Supply Current @ Pout=0.5 W	-	1.8	2.2	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	2.92 mm Female			
Material	Aluminium / Gold Plating			
Weight	200 g			
Dimensions ¹	50×55×12 mm [1.97×2.17×0.47 in]			

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



Note 1: Excluding Connectors