

YSPA36-R5-4R2-S-HS

0.5-4.2 GHz Power Amplifier, 36 dB Psat, SMA

Key Features

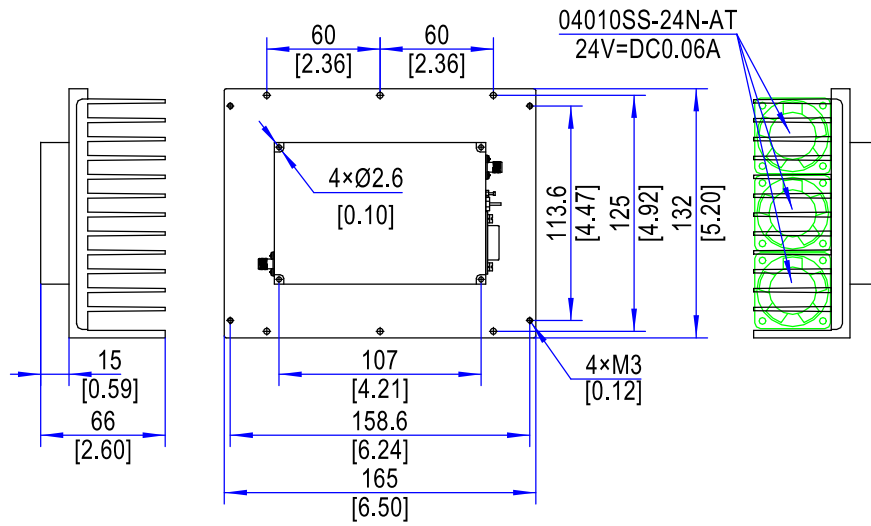
- Broadband 0.5-4.2 GHz coverage
- 36 dBm Psat
- Low spurious emissions
- High reliability for continuous operation
- Compact module with +28V supply

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	0.5	-	4.2	GHz
Gain	20	25	-	dB
Gain Flatness	-	±1.0	±1.5	dB
Input VSWR	-	1.5	2.0	-
Output VSWR	-	2.5	3.3	-
Noise Figure	-	10	15	dB
Output P1dB	31	34	-	dBm
Output Psat	33	36	-	dBm
OIP3	40	44		dBc
Spurious	-	-60	-	dBc
Harmonic Suppression @ Pout=2 W		-15		dBc
Input Max Power(no damage)	-	-	20	dBm
Supply Voltage	-	+28	+30	V
Supply Current @ Pout=5 W	-	1.5	2.5	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			
Control Connector DB9	Pin: 1,2,3 4,5 NC; 6,7 Vd, 8,9 GND			
Material	Aluminium			
Weight	1000 g			
Dimensions ¹	165×132×66 mm [6.50×5.20×2.60 in]			

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



Note 1: Excluding Connectors