

YSLA17-R1-40-4R5

Low Noise Amplifier, 0.1-40 GHz, 17 dB Gain, 4.5 dB NF

Key Features

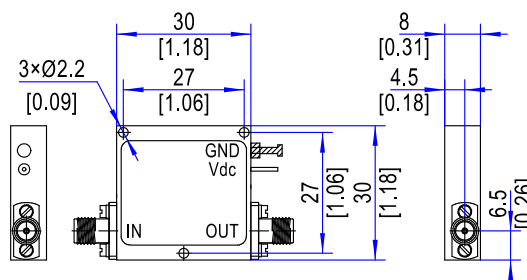
- Ultra-Wideband Frequency Coverage
- High Gain with Low Noise Performance
- Excellent RF Performance
- Compact and Rugged Mechanical Design
- Wide Operating Temperature Capability

Applications

- RF Receiver Front-End Systems
- Microwave Communication Systems
- Radar and Electronic Systems
- Satellite Communication (SATCOM)
- RF Test & Measurement Equipment

Electrical Specifications				
Parameter	Min.	Typ.	Max.	Unit
Frequency Range	0.1	-	40	GHz
Gain	15	17	-	dB
Gain Flatness	-	-	±3.0	dB
Input VSWR	-	1.5	2.0	-
Output VSWR	-	1.5	2.0	-
Noise Figure	-	4.5	6.0	dB
Output P1dB	18	20	-	dBm
Output Psat	-	21	-	dBm
OIP3	-	30	-	dBm
Input Max Power(no damage)	-	-	+5	dBm
Supply Voltage	-	+12	-	V
Supply Current	-	280	-	mA
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 Plated			
Dimensions ¹	30×30×8 mm [1.18×1.18×0.31 in]			

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



Note 1: Excluding Connectors