300–1100 MHz Four-Input Two-Output Amplifier



The original functional diagram combines IN1–IN4 into a common path and then branches to OUT1 and OUT2. The 300–1100 MHz table specifies 30 dB typical gain and 10 dBm maximum Psat. It provides no noise-figure value.

Typical supply is 5 V and typical module current 350 mA. The body is 75 × 60 × 14 mm with SMA-K female RF ports. The source does not specify gain, isolation or phase balance for individual branches.

Electrical specifications

Parameter	Value	Unit
Operating frequency	300–1100	MHz
Gain	30 (Typical)	dB
Saturated output power (Psat) [1]	≤10	dBm
Input S11 (signed source value) [2]	−10 (Typical)	dB
Supply voltage	5 (Typical)	VDC
Dynamic current	350 (Typical)	mA

[1] Saturated output (Psat), not P1dB or guaranteed linear output.

[2] Negative S11 convention retained from source; not recast as positive return loss.

Absolute maximum ratings

Parameter	Value	Unit
Absolute maximum supply voltage	≤7 (Absolute maximum rating; continuous operation or performance at this limit is not established. Maximum: 7 VDC.)	VDC
Absolute maximum input power	≤12 (Absolute maximum rating; continuous operation or performance at this limit is not established. Maximum: 12 dBm.)	dBm
Operating temperature	−40–+70	°C
Storage temperature	−40–+85	°C

Interfaces and contacts

Interface	Specification
RF input connector	SMA-K female
RF output connector	SMA-K female
DC supply interface	Feed-through capacitor
Ground interface	Grounding metal sheet

Interfaces and contacts

Interface	Specification
RF input port count	4
RF output port count	2
Signal routing	Four inputs combined and distributed to two outputs

Mechanical specifications

Parameter	Value	Unit
Body dimensions	75 × 60 × 14	mm
Mounting-hole center spacing	55.6 × 70.6	mm
Mounting holes	4 × Φ2.7T (The original drawing marks T; hole construction is not expanded.)	mm

Document notice

Specifications are subject to revision. Before design release, confirm the current document revision and product-specific requirements with LCRF. The approved quotation and order documentation define the supplied configuration.