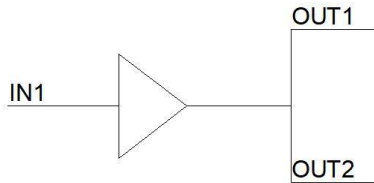


## 300–1100 MHz One-Input Two-Output Amplifier

An amplified input is distributed to two outputs, with 30 dB typical gain.



### Electrical specifications

| Parameter                       | Value    | Unit | Notes                                                                                              |
|---------------------------------|----------|------|----------------------------------------------------------------------------------------------------|
| Operating frequency             | 300–1100 | MHz  | -                                                                                                  |
| Gain                            | 30       | dB   | Typical: 30 dB.                                                                                    |
| Saturated output power (Psat)   | 8        | dBm  | Saturated output (Psat), not P1dB or guaranteed linear output. Typical: 8 dBm.                     |
| Input S11 (signed source value) | −10      | dB   | Negative S11 convention retained from source; not recast as positive return loss. Typical: -10 dB. |
| Supply voltage                  | 5        | VDC  | Typical: 5 VDC.                                                                                    |
| Dynamic current                 | 100      | mA   | Typical: 100 mA.                                                                                   |

### 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

| Parameter           | Value                  | Unit |
|---------------------|------------------------|------|
| RF input connector  | SMA-K female           | -    |
| RF output connector | SMA-K female           | -    |
| DC supply interface | Feed-through capacitor | -    |
| Ground interface    | Grounding metal sheet  | -    |
| RF input port count | 1                      | -    |

## Interfaces and contacts

| Parameter            | Value                                              | Unit |
|----------------------|----------------------------------------------------|------|
| RF output port count | 2                                                  | -    |
| Signal routing       | One input amplified and distributed to two outputs | -    |

## Mechanical specifications

| Parameter       | Value        | Unit |
|-----------------|--------------|------|
| Body dimensions | 50 × 40 × 13 | mm   |

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### 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.