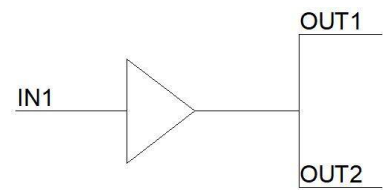


1.8–3 GHz RF Amplifier and Two-Output Distribution Module

One RF input is amplified and distributed to two outputs; typical gain 30 dB, Psat 8 dBm and module current 100 mA.



Electrical specifications

Parameter	Value	Unit	Notes
Operating frequency	1800–3000	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

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.