

Electrical Specifications: $T_A = +25^\circ\text{C}$

Parameter	Test Conditions	Units	Min	Typical	Max
1 dB Compression	.05 GHz	dBm	—	+20	—
	.5 - 3.0 GHz	dBm	—	+27	—
Input IP_3	Two tone inputs 0.05 GHz	dBm	—	+35	—
	up to +5 dBm 0.5 - 3.0 GHz	dBm	—	+46	—
V_{CC}	—	V	+4.5	+5.0	+5.5
V_{EE}	—	V	-8.0	-5.0	-4.75
I_{CC}	$V_{CC} = +5.0\text{V}$	mA	—	—	4
I_{EE}	$V_{EE} = -5.0\text{V}$	mA	—	—	-1
Logic "0"	$I_{in} = 20\mu\text{A max}$	V	0.0	—	0.8
Logic "1"	$I_{in} = 20\mu\text{A max}$	V	2.0	—	5.0

Absolute Maximum Ratings^{3,4}

Parameter	Absolute Maximum
Max. Input Power	
0.05 GHz	+27 dBm
0.5 - 3.0 GHz	+34 dBm
Bias Voltages	
V_{EE}	-8.5V
V_{CC}	+5.5V
Control Voltage	-0.5V to $V_{CC} + 0.5\text{V}$
Operating Temperature	-40°C to +85°C
Storage Temperature	-65°C to +125°C

Pin Configuration

Pin #	Function	Pin #	Function
1	RFc	13	C1
2	GND	14	GND
3	GND	15	GND
4	GND	16	GND
5	GND	17	GND
6	GND	18	GND
7	GND	19	RF1
8	V_{EE}	20	GND
9	GND	21	GND
10	V_{CC}	22	GND
11	GND	23	GND
12	GND	24	GND

Truth Table

TTL Control Input	RF Common To:
C1	RF1
1	On
0	Off

- Decoupling capacitors (.01 μF) are required on the power supply lines.
- Operation of this device above any one of these parameters may cause permanent damage.
- When the RF input is applied to the terminated port, the absolute maximum power is +30 dBm.

Specifications subject to change without notice.

V 3.00

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