

Absolute Maximum Ratings

Parameter	Absolute Maximum
Max. Input Power 0.5 – 2.0 GHz	
5V Control and Supply	+37 dBm
8V Control and Supply	+40 dBm
10V Control and Supply	+42 dBm
Power Dissipation	1.0 W
Supply Voltage	-1V, +12V
Control Voltage	-1V, Vsupply + 0.2V
Operating Temperature	-40°C to +85°C
Storage Temperature	-65°C to +150°C
Thermal Resistance ² : $\theta_{jC} = 87 \text{ }^\circ\text{C/W}$	

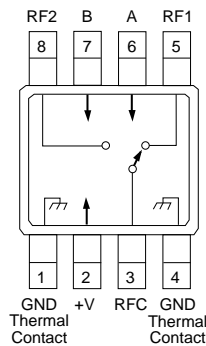
1. Operation of this device above any one of these parameters may cause permanent damage.
2. Thermal resistance is given for $T_A = 25^\circ\text{C}$. T_{CASE} is the temperature of leads 1 and 4.

Pin Configuration

Pin No.	Description
1	GND, Thermal Contact
2	+V Supply
3 ¹	RF Common
4	GND, Thermal Contact
5 ¹	RF1
6	A
7	B
8 ¹	RF2

1. External DC blocking capacitors required on all RF ports.

Functional Schematic



Two Tone IP₃ Measurements

Supply & Control Voltage	Input Power (dBm)	3rd Order Intermodulation Products (dBc)	IP ₃ (dBm)	Second Harmonic (dBc)
0,5V	+27	-32	+43	-74
0,6V	+27	-45	+49.5	-77
0,7V	+27	-58	+56	-79
0,8V	+27	-72	+63	-79
0,10V	+27	-72	+63	-81
0,5V	+28	-30	+43	-69
0,6V	+28	-40	+48	-76
0,7V	+28	-53	+54.5	-78
0,8V	+28	-64	+60	-79
0,10V	+28	-72	+64	-80
0,5V	+29	-28	+43	-59
0,6V	+29	-37	+47.5	-74
0,7V	+29	-49	+53.5	-75
0,8V	+29	-50	+54	-75
0,10V	+29	-50	+54	-75
0,5V	+30	-36	+43	-67
0,6V	+30	-46	+48	-73
0,7V	+30	-50	+53	-75
0,8V	+30	-50	+55	-75
0,10V	+30	-50	+55	-75

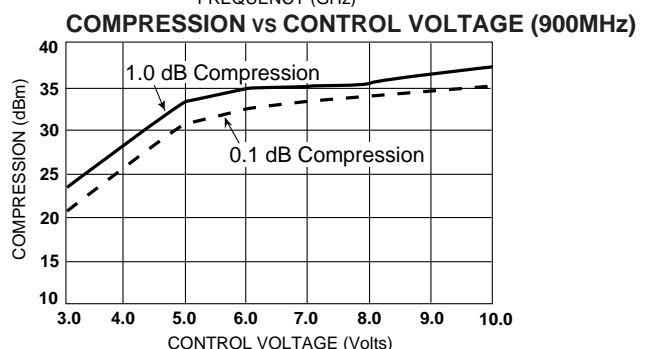
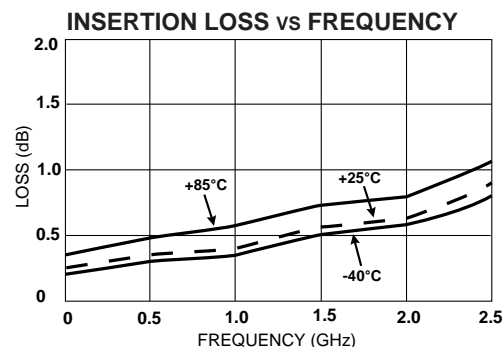
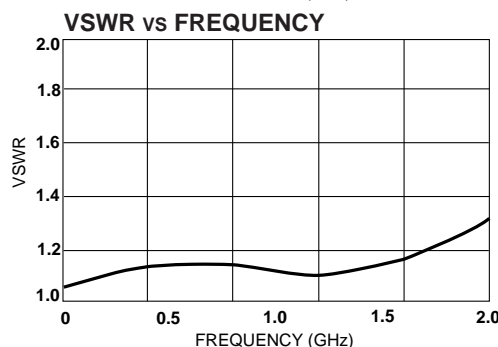
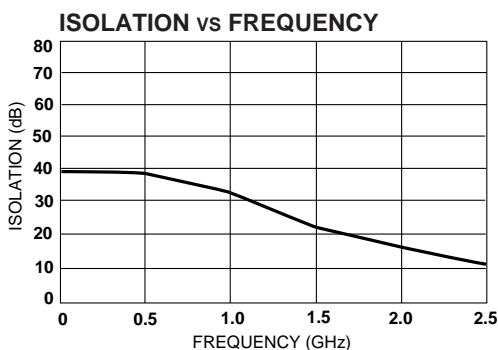
Truth Table

Control Inputs		Condition of Switch RF Common to Each RF Port	
A	B	RF1	RF2
1	0	Off	On
0	1	On	Off

"0" – 0 to +0.2V @ 20 μA max.

"1" – +5V @ 20 μA Typ to 10V @ 500 μA max.

Typical Performance



Specifications Subject to Change Without Notice.

This datasheet has been download from:

www.datasheetcatalog.com

Datasheets for electronics components.