

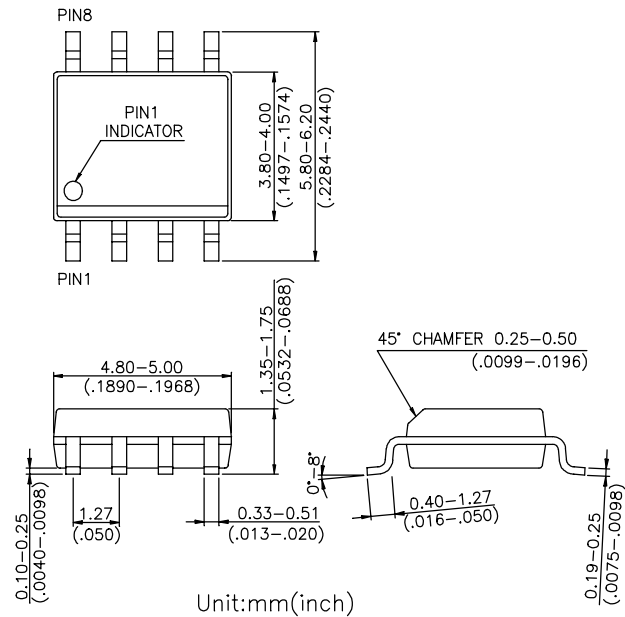
Features

- Frequency Range: DC - 2.0 GHz
- Reflective Type
- Low Power Consumption
- Low Cost Surface Mount SO-8 Package

Description

The HWS2702 is an integrated GaAs SPDT Switch designed for transceivers operating in DC to 2000 Mhz frequency range. It is suitable for 900 Mhz cellular phones, CT1, CT2, DECT, and Wireless LAN applications.

SOP-8



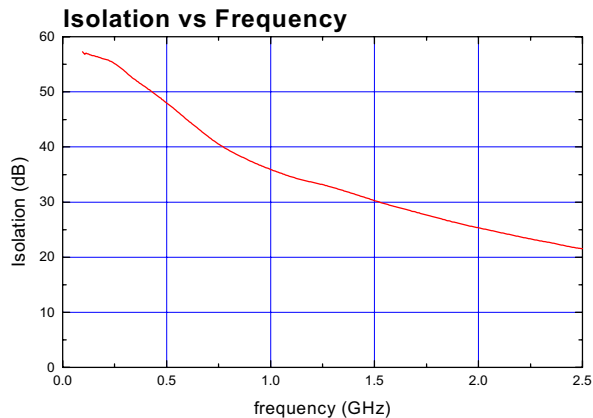
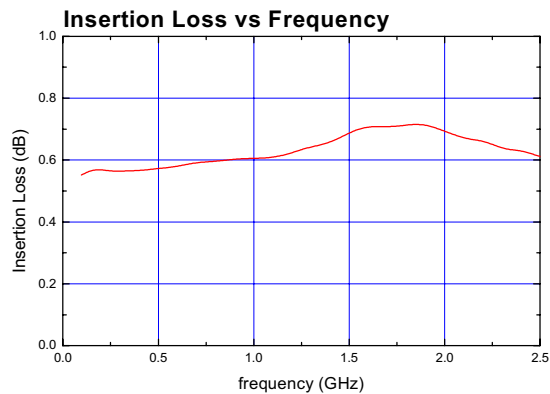
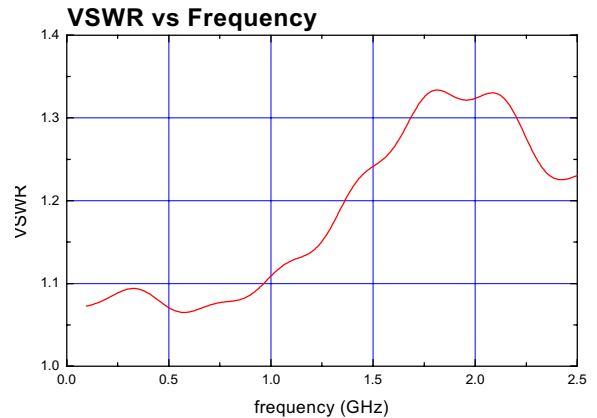
Electrical Specifications at 25°C with 0 / -5V Control Voltages

Parameter	Test Conditions	Min.	Typ.	Max.	Unit
Insertion Loss	DC-0.5GHz		0.5	0.6	dB
	DC-1.0GHz		0.6	0.8	dB
	DC-2.0GHz		0.8	1.0	dB
Isolation	DC-0.5GHz	35	38		dB
	DC-1.0GHz	30	32		dB
	DC-2.0GHz	20	22		dB
VSWR	DC-0.5GHz		1.15:1	1.20:1	
	DC-1.0GHz		1.25:1	1.30:1	
	DC-2.0GHz		1.35:1	1.40:1	
Input Power for One dB Compression	>100 MHz	25	27		dBm

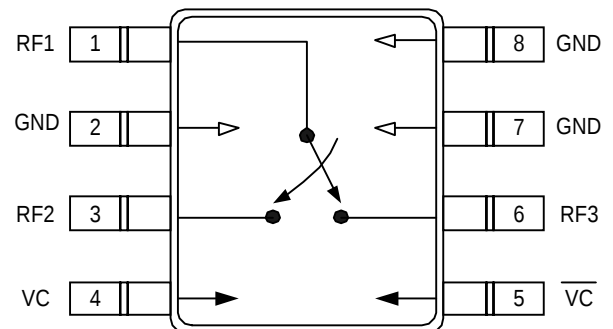
Note: All measurements made in a 50Ω system with 0/-5V control voltages, unless otherwise specified.

Absolute Maximum Ratings

Parameter	Absolute Maximum
RF Input Power >100MHz	33dBm
Control Voltage	-8V
Operating Temperature	-40°C to +85°C
Storage Temperature	-65°C to +150°C



Pin Out



Truth Table

VC	$\overline{VC}$	RF1-RF2	RF1-RF3
1	0	Isolation	Insertion Loss
0	1	Insertion Loss	Isolation

'0' = 0 to -0.2V

'1' = -3V to -6V