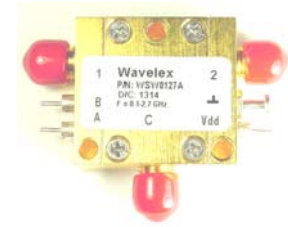


Key Features

- Wide band, 0.1 ~ 2.7 GHz
- Low insertion loss, 0.50 dB typ.
- 40 dBm power handling.
- 25 nS speed, SPDT
- Built in DC block
- Precision machined housing
- RoHS compliant

Applications

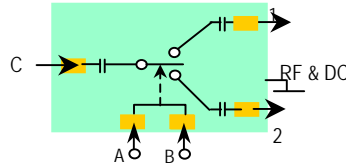
- LTE
- Radio front end
- RF bench test
- Mobile base station applications



Absolute Maximum Ratings

Input Power, CW	40 dBm
Maximum Hot Switch	39 dBm
DC Control Voltage	-0.2V, +12V
Storage Temperature	-40°C to +85°C

Functional Block Diagram



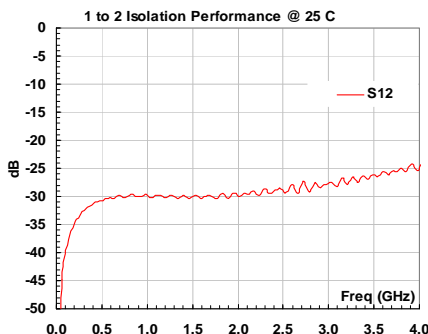
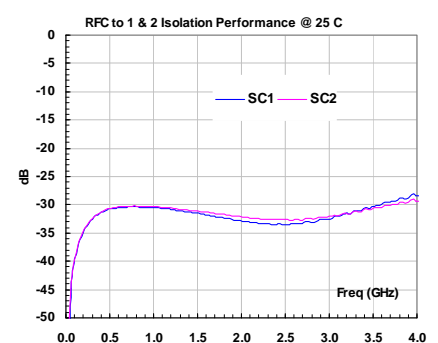
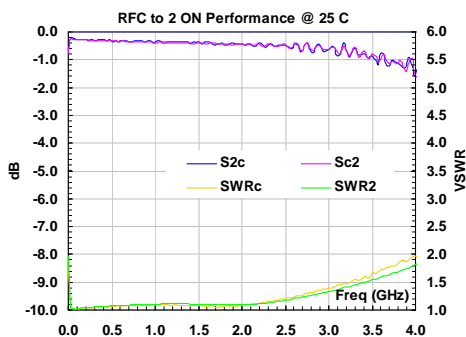
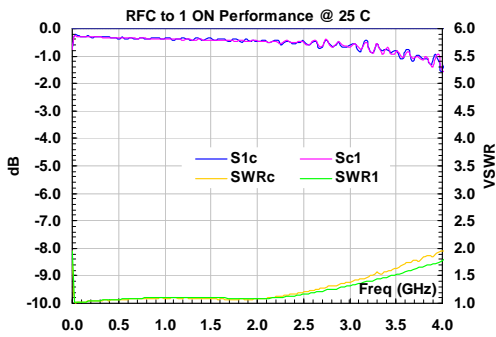
Ordering Information

Model	WSW0127A		
Control Input		Signal Path State	
A	B	C to 1	C to 2
High	Low	On	Off
Low	High	Off	On
Low	Low	Off	Off

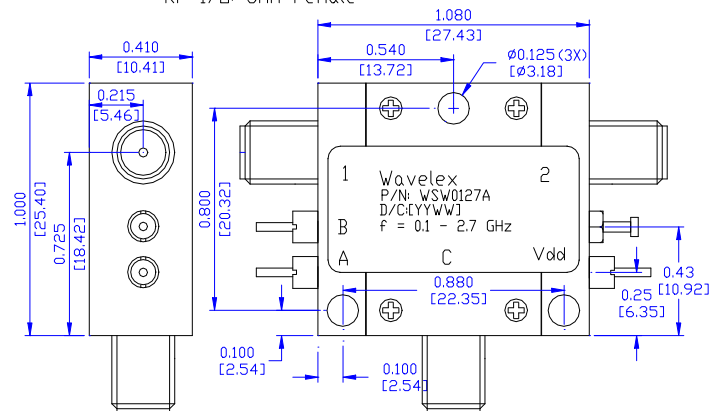
Specifications (Tested at +25°C)

Item	Symbol	Test Constraints	Min	Typ	Max	Unit
Frequency Range	BW	50 Ohm Impedance	0.1		2.7	GHz
Insertion Loss	S ₂₁ , S ₃₁	0.1 – 2.7 GHz, in Contact Path, with SMA Connectors		0.5	0.8	dB
Isolation	S ₂₁ , S ₃₁	0.1 – 2.7 GHz, In Isolation Path	18			dB
VSWR	SWR _i	0.1 – 2.7 GHz, all ports		1.25:1	1.5:1	Ratio
Maximum Power Handling	P _{MAX}	0.1 – 2.7 GHz, CW			40	dBm
Switching Speed	t _s	0.1 – 2.7 GHz, 10% to 90% RF and 90% to 10% RF		25	80	nS
Output IP ₃	IP ₃	0.1 – 2.7 GHz		70		dBm
Control Voltage, High	V _{ch}		V _{dd} - 0.20	V _{dd}	V _{dd} + 0.20	V
Control Voltage, Low	V _{cl}		0	0	0.2	V
Operating Temp	T _o		-40		+85	°C

Typical Performance



UNITS: INCH [mm]
 Base Material: Brass.
 Finish: Gold Plating.
 RF I/O: SMA Female



Outline