

RFSW20-10 RF SPDT Switch is used in TDD (Time Division Duplexing) mode for switching between TX and RX paths with low loss, broadband, and high isolation. This RF switch is Reflective type and the design incorporates series-shunt circuit elements with the locations optimized to achieve outstanding broadband performance in 2-20 GHz. The combination of broadband performance along with very fast switching and excellent settling time make this device ideal for many applications including Test & Measurement, EW, and broadband communication systems. This switch is designed using the 0.1 um GaAs pHEMT process. All results are shown in the datasheet with consideration of parasitic and coupling effects in layout.

Features:

- RF Frequency: 2-20 GHz
- Low Insertion Loss: 1.9 dB.
- High Isolation: 25 dB.
- Fast Switching Speed.
- Reflective Configuration.
- Ultra Low DC Power Consumption.
- Die size: 1.2 mm x 1.54 mm

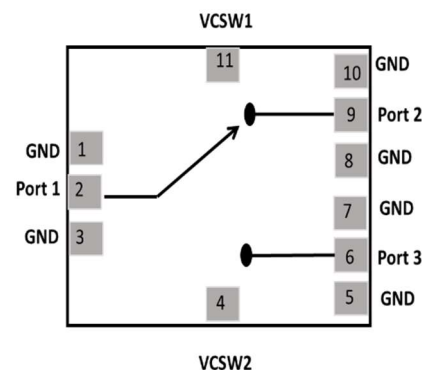
Application:

- 5G mobile system.
- Satellite Communication.
- Point-to-point communication system.
- RADAR.

Tech Specs:

- Part Number: RFSW20-10
- Provider: RFIC Solutions Inc.
- Foundry node: 0.1um GaAs pHEMT Win Semiconductors
- Porting: IP can be ported to 65nm Si / CMOS node

Functional Block Diagram:



Deliverables:

- Schematic and Netlist
- Abstract Model (.lib file)
- Layout View(Optional)
- Behavioral model (Circuit & EM simulation)
- Extracted View(Optional)
- GDSII
- DRC, LVS, Antenna report
- Test bench with configuration(Optional)
- Documentation

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AUG 2024