

FEATURE

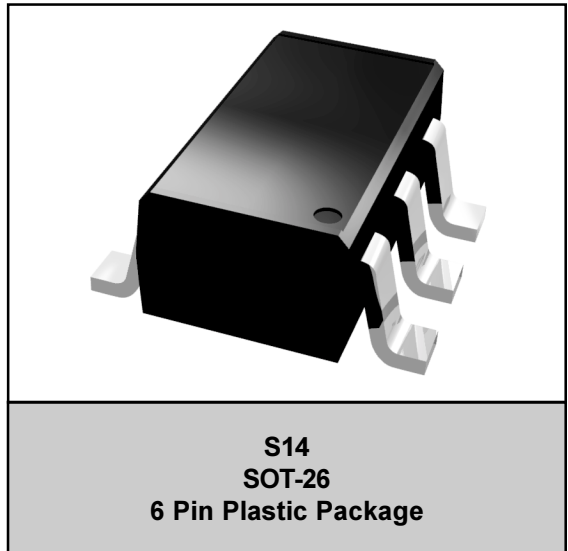
- High Linearity (IP3 48 dBm @ 0.9 GHz)
- Low Insertion Loss (0.4 dB @ 0.9 GHz)
- 2.75 V to -3.5 to +2.75 operation
- Low DC Power Consumption
- Ultra Miniature SOT-26 Package
- High Isolation

APPLICATION

- Transmit/receive switch
- Diversity switching
- Antenna selection

DESCRIPTION

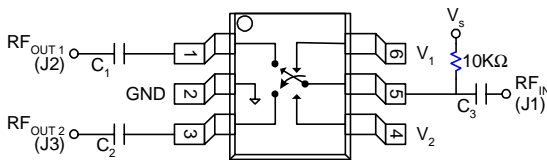
The AWS5504 is a Single Pole Double Throw (SPDT) GaAs MMIC switch assembled in a SOT-6 plastic package. The AWS5504 is designed for analog and digital applications that require low insertion loss,



high linearity, and small size. The switch can be controlled with positive, negative, or a combination of both voltages.

Table 1: Pin Description

PIN	NAME	DESCRIPTION
1	RF _{OUT1} (J2)	RF port can be used as an input or as an output.
2	GND	Ground connection. Keep as short as possible.
3	RF _{OUT2} (J3)	RF port can be used as an input or an output.
4	V2	Control Voltage 2, Low 0V, High 3V to 5V
5	RF _{IN} (J1)/V _S	RF common port and bias voltage for positive control (3V to 5V).
6	V1	Control Voltage 1, Low 0V, High 3V to 5V



DC block capacitors $C_{1,2,3}$ must be supplied externally.

$C_{1,2,3} = 100 \text{ pF}$ for operation $>500 \text{ MHz}$

Figure 1: Pin Out Diagram