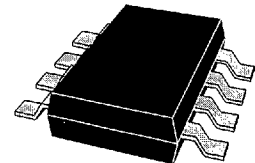


GaAs MMIC SPST FET Switch in 8 Lead SOIC Package Non-Reflective DC-2.5 GHz

AS349-12

Features

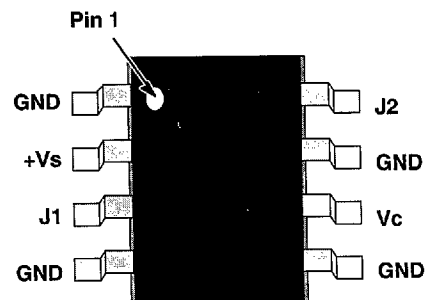
- Single Positive Control
- Input and Output Non-Reflective
- Low Cost



Description

The AS349 is a SPST MMIC switch, absorptive on both input and output. The switch requires external DC block capacitors, positive supply and single positive control. The device is mounted in a plastic SOIC 8 package for surface mounting in commercial switching applications.

Pin Out



Electrical Specifications at 25°C

Insertion Loss ¹	at 1 GHz	0.6	dB	Typ
	at 2 GHz	0.8	dB	Typ
Isolation	at 1 GHz	27	dB	Typ
	at 2 GHz	21	dB	Typ
"Off" State VSWR	at 1 GHz	1.4:1		Typ
	at 2 GHz	1.5:1		Typ

1. Insertion loss changes by 0.003 dB/°C.

Operating Characteristics at 25°C

	3V	5V	
P0.1 dB at 900 MHz	19 dBm	26 dBm	Typ
P1 dB	24.5 dBm	32 dBm	Typ
IP3	35 dBm	42 dBm	Typ
Total Current Consumption	15 μ A	30 μ A	Typ
Ton (50% Control to 90% RF)	135 ns	170 ns	Typ
Toff (50% Control to 10% RF)	220 ns	70 ns	Typ

Truth Table

Vc	0V	+Vs
J1-J2	Isolation	Insertion Loss

0585443 0002410 842

RF GaAs MMIC Products in Metal Packages

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