

# SPM3214

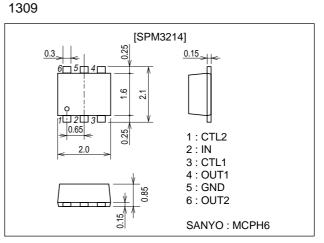
## **RF Switch MMIC**

#### Features

- Control voltage : +3 / 0V.
- MCPH6 package.
- Low insertion loss.
- High isolation.

### **Package Dimensions**

unit : mm



## **Specifications**

#### Absolute Maximum Ratings at Ta=25°C

Parameter	Symbol	Ratings	Unit
Control Voltage	VCTL	5.0	V
Power Dissipation	PD	150	mW
Storage Temperature	Tstg	-55 to +150	°C
Operating Temperature	Topr	-20 to +70	°C

#### Electrical Characteristics at Ta=25°C, Control Voltage 1, 2:0/+3V

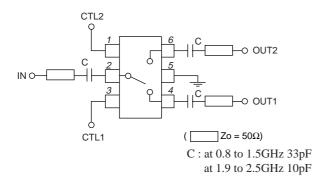
Parameter	Conditions		Rating			Unit
Falanletei			min	typ	max	Unit
		f=1GHz		0.55	0.85	dB
Insertion Loss	IN-OUT1, IN-OUT2	f=2GHz		0.6	0.9	dB
		f=2.5GHz		0.65	0.95	dB
Isolation	IN-OUT1, IN-OUT2	f=1GHz	21	24		dB
		f=2GHz	17	20		dB
		f=2.5GHz	15	18		dB
VSWR	IN-OUT1, IN-OUT2	f=1GHz to 2.5GHz		1.1	1.5	
Switching Time		f=1GHz to 2.5GHz		20	100	ns
PIN1dB	IN-OUT1, IN-OUT2	f=1GHz to 2.5GHz	26	30		dBm

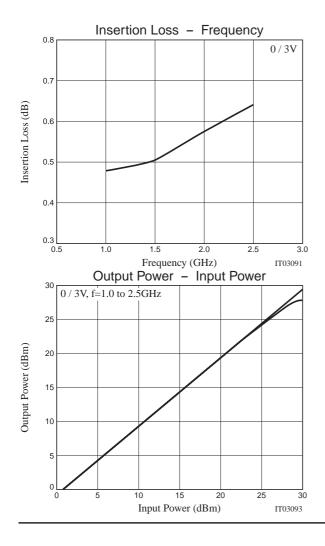
CTL1	CTL2	
+3V	0V	IN – OUT1
0	+3V	IN – OUT2

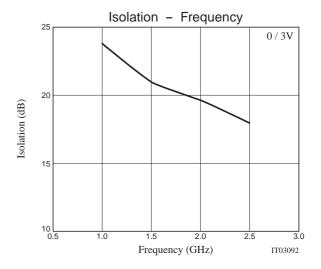
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## **Application Circuit**







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