



SPM3216

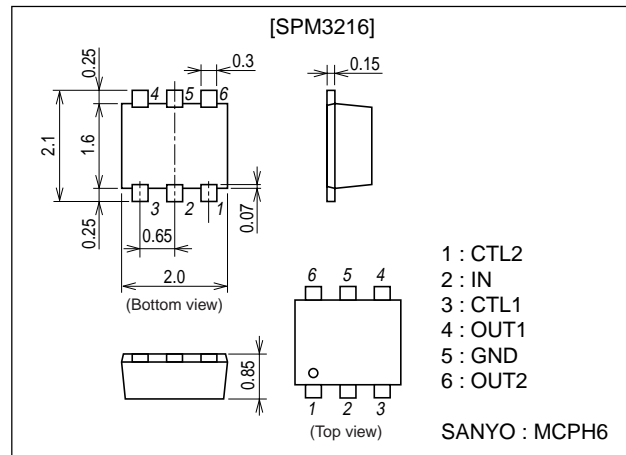
Wide-Band Switch MMIC Operating with Single Power Supply

Features

- Control voltage : +3 / 0V.
- Small package (MCPH6).
- High isolation.
- Low Insertion loss.

Package Dimensions

unit : mm
1309A



Specifications

Absolute Maximum Ratings at Ta=25°C

Parameter	Symbol	Conditions	Ratings	Unit
Control Voltage	V _{CTL}		5.0	V
Power Dissipation	P _D		150	mW
Storage Temperature	T _{stg}		-55 to +150	°C
Operating Temperature	T _{opr}		-20 to +85	°C

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

Parameter	Conditions	Rating			Unit
		min	typ	max	
Insertion Loss	IN-OUT1, IN-OUT2		0.55	0.85	dB
			0.6	0.9	dB
			0.65	0.95	dB
Isolation	IN-OUT1, IN-OUT2		19	22	dB
			15	18	dB
			13	16	dB

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

Marking : RH

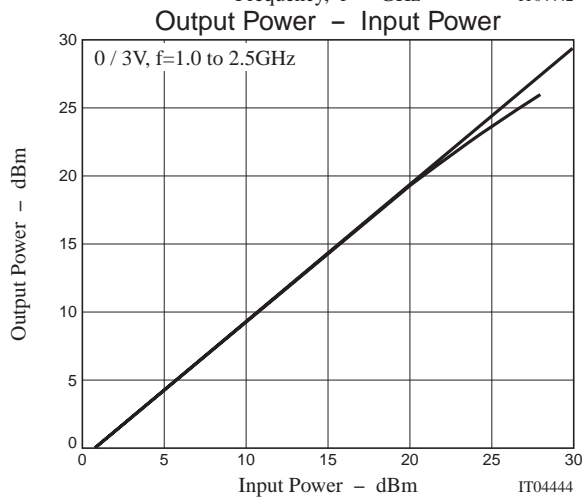
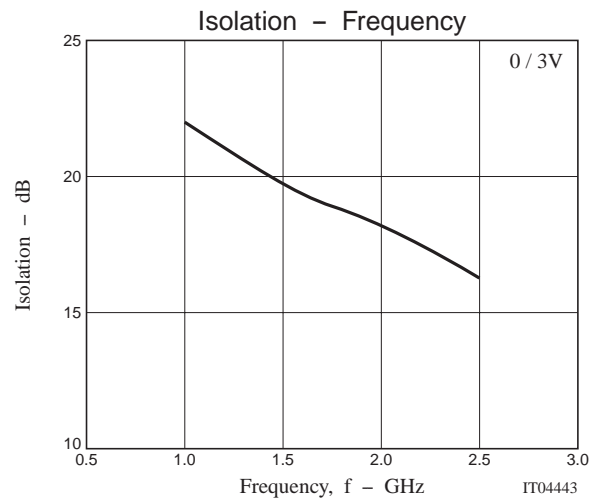
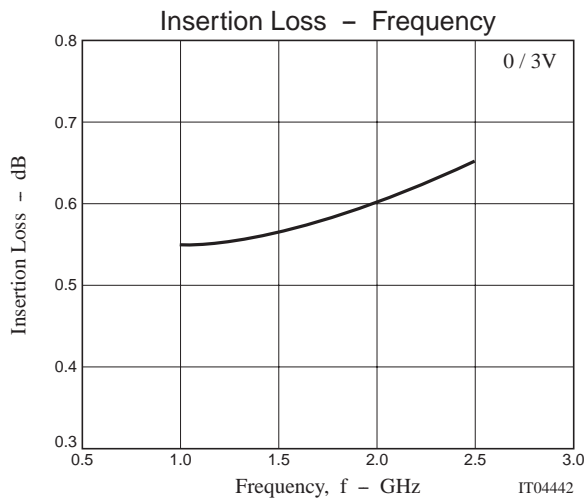
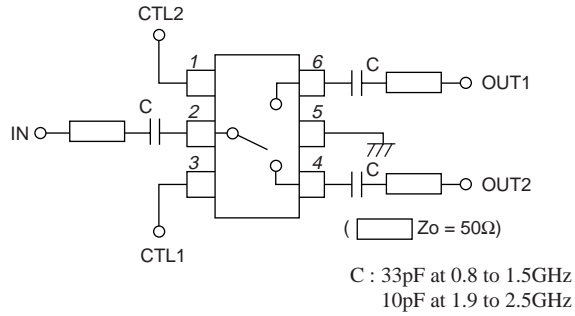
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Parameter	Conditions	Rating			Unit
		min	typ	max	
VSWR	IN-OUT1, IN-OUT2	f=1GHz to 2.5GHz	1.1	1.5	
Switching Time		f=1GHz to 2.5GHz	20	100	ns
P _{IN} 1dB	IN-OUT1, IN-OUT2	f=1GHz to 2.5GHz	24	28	dBm

Application Circuit



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