



SPM3220 — RF SPDT Switch MMIC

Wide-band Switch MMIC Operating with Single Power Supply

Features

- Control voltage +3 / 0V.
- Ultrasmall package (ECSP).
- High isolation.
- Low insertion loss.
- High surge breakdown voltage.

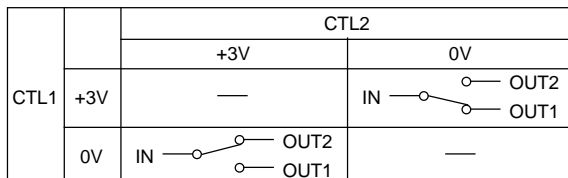
Specifications

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}		-40 to +85	°C

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

Parameter	Conditions	Ratings			Unit	
		min	typ	max		
Insertion Loss	IN-OUT1, IN-OUT2	f=1GHz		0.4	0.65	dB
		f=2GHz		0.45	0.7	dB
		f=2.5GHz		0.50	0.75	dB
Isolation	IN-OUT1, IN-OUT2	f=1GHz	20	23		dB
		f=2GHz	15	18		dB
		f=2.5GHz	13	16		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
P _{IN} 1dB	IN-OUT1, IN-OUT2	f=1GHz to 2.5GHz		23	27	dBm



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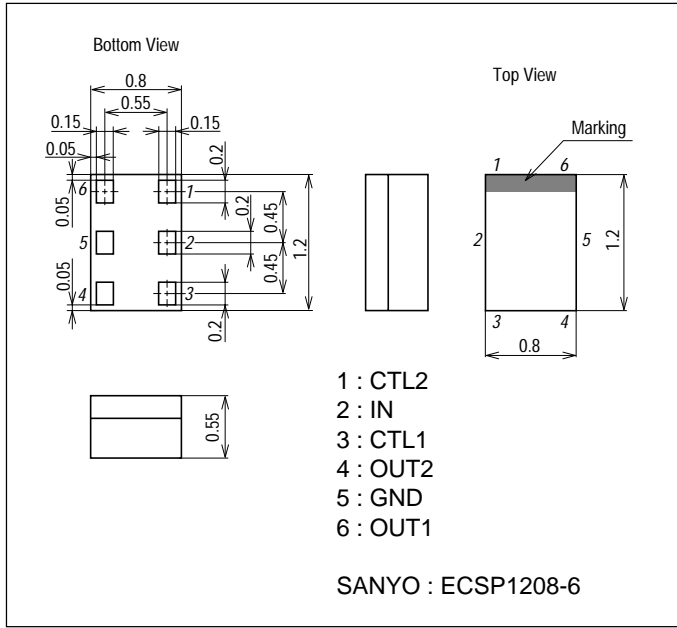
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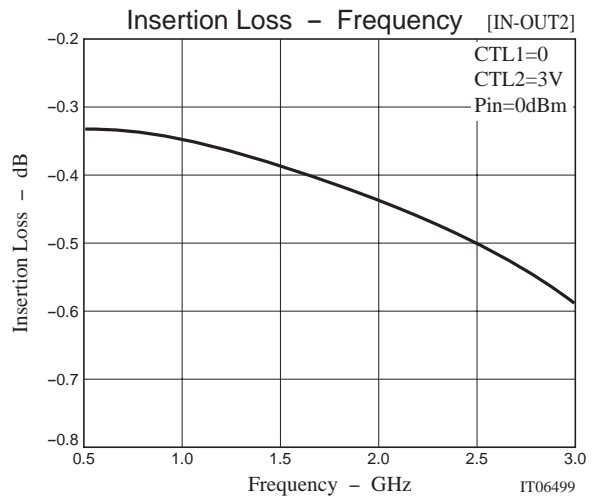
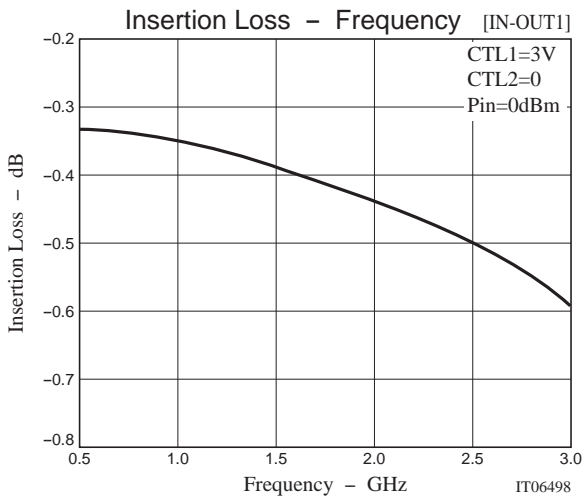
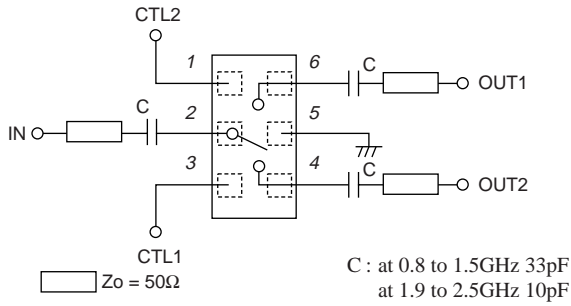
Package Dimensions

unit : mm
1318A

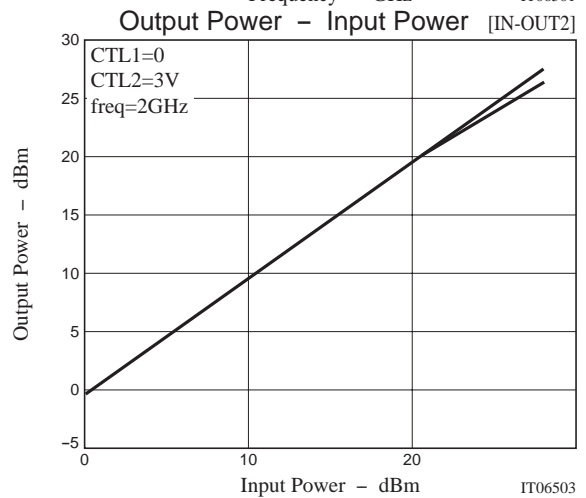
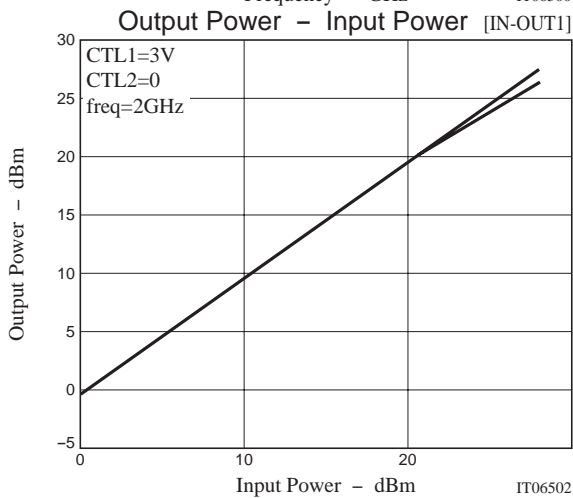
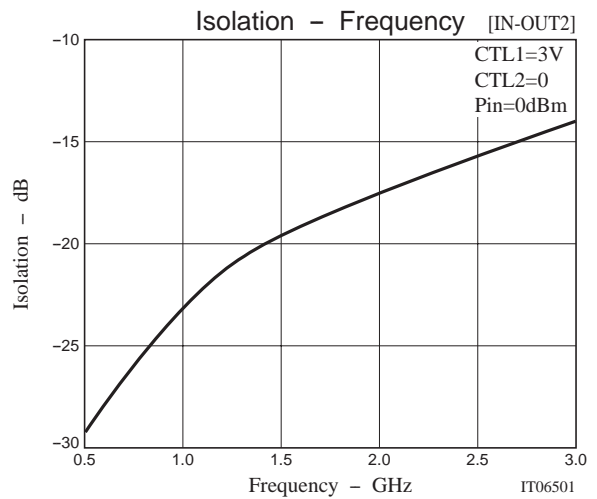
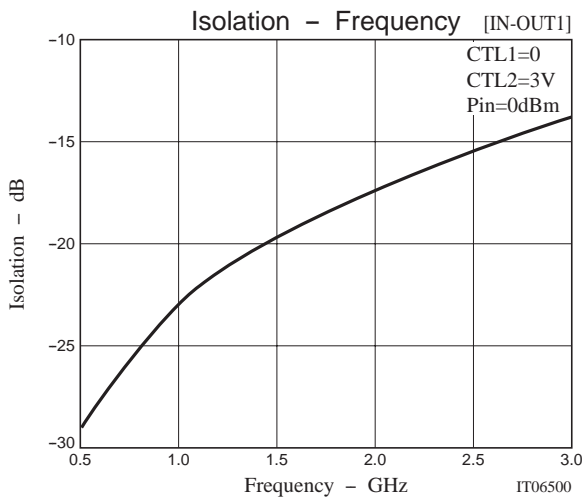
Marking : GD



Application Circuit



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