



# SPM3255

## Single Power Supply Operation RF Switch MMIC

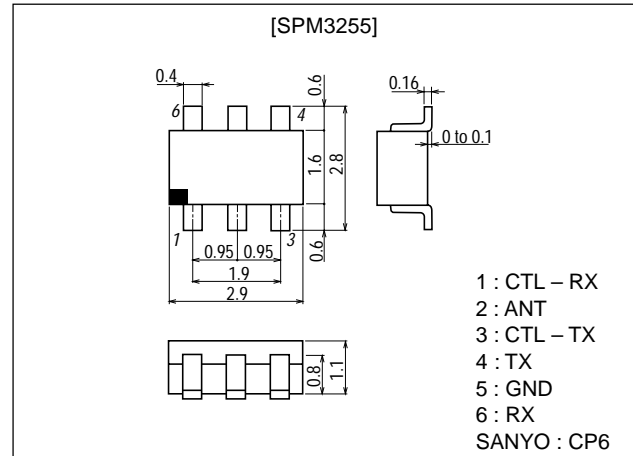
### Features

- Control voltage +3 / 0V.
- Mini molded package.
- Low insertion loss, high linearity.

### Package Dimensions

unit:mm

1273



### Specifications

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

Parameter	Symbol	Conditions	Ratings	Unit
Control Voltage	V <sub>CTL</sub>		5	V
Storage Temperature	T <sub>stg</sub>		-55 to +150	°C
Operating Temperature	T <sub>opr</sub>		-20 to +70	°C

#### Electrical Characteristics at Ta = 25°C

Parameter	Symbol	Conditions (Control voltage + 3 / 0V)	Ratings			Unit
			min	typ	max	
Insertion Loss	TX - ANT, ANT - RX	f=810 to 1033MHz			0.5	dB
	TX - ANT, ANT - RX	f=1.9GHz		0.6	0.9	dB
Control Current	RX, TX	f=1.9GHz			50	μA
Isolation	TX - ANT, ANT - RX	f=810 to 1033MHz	24			dB
	TX - ANT, ANT - RX	f=1.9GHz	20	22		dB
VSWR	TX - ANT, ANT - RX	f=810 to 1033MHz		1.1	1.3	
	TX - ANT, ANT - RX	f=1.9GHz		1.4	2.0	
Switching Time	T <sub>sw</sub>	f=810MHz to 1.9GHz		20	100	ns
P1dB	TX - ANT, ANT - RX	f=810MHz to 1.9GHz	17	20		dBm

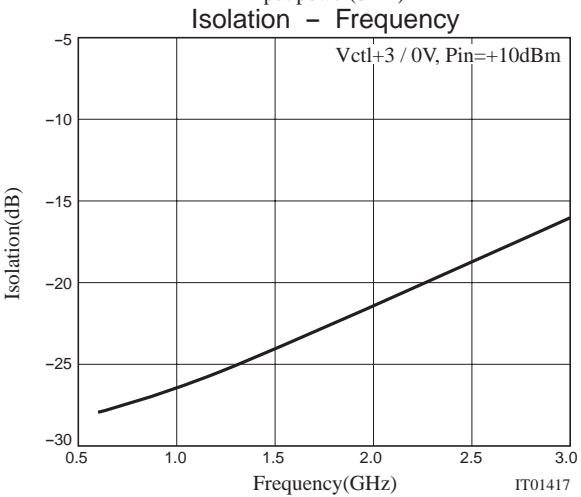
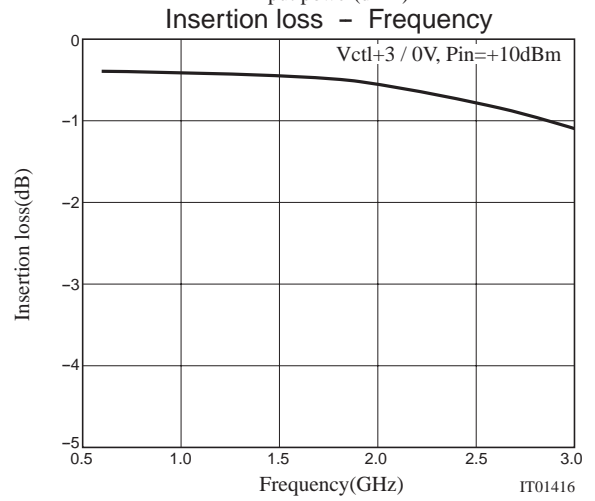
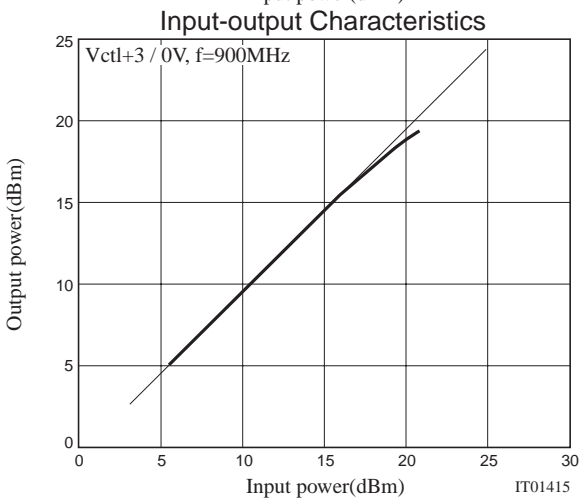
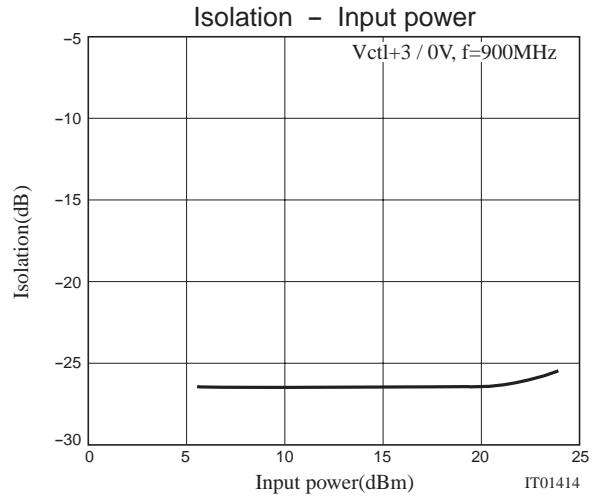
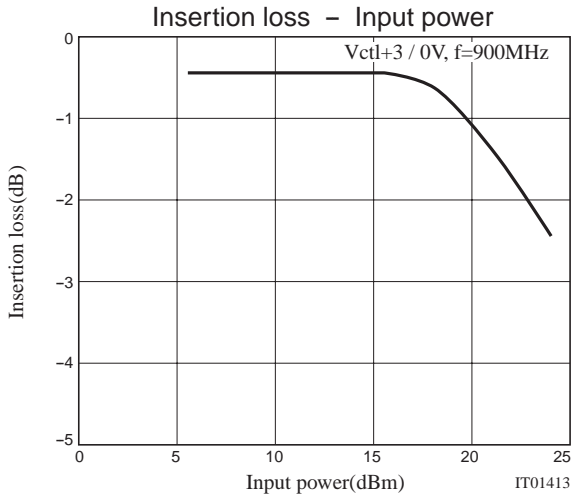
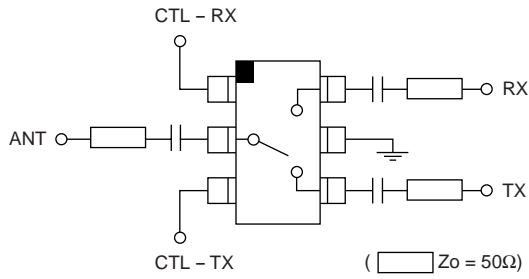
Marking : ML

CTL - TX	CTL - RX	
+ 3V	0V	TX → ANT
0V	+ 3V	ANT → RX

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Sample Application Circuit



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