



SPM3204

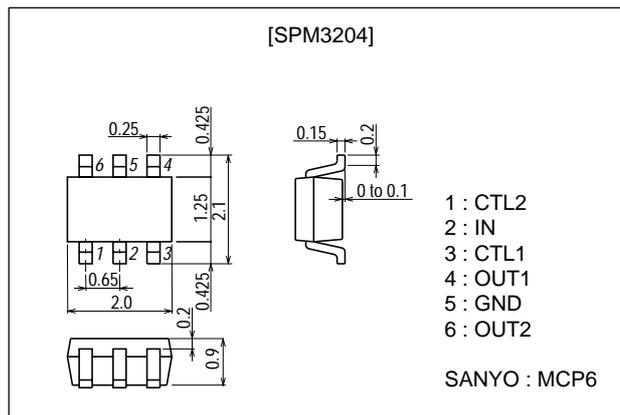
RF Switch MMIC

Features

- Control voltage +3 / 0V.
- MCP package.
- Low Insertion loss.
- High isolation.
- High linearity.
- Low VSWR.

Package Dimensions

unit : mm
1297



Specifications

Absolute Maximum Ratings at Ta=25°C

| Parameter | Symbol | 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 _{opg} | -20 to +70 | °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 | f=1GHz | 0.55 | 0.85 | dB | |
| | | 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 |
| P _{IN} 1dB | IN-OUT1, IN-OUT2 | f=1GHz to 2.5GHz | | 26 | 30 | dBm |

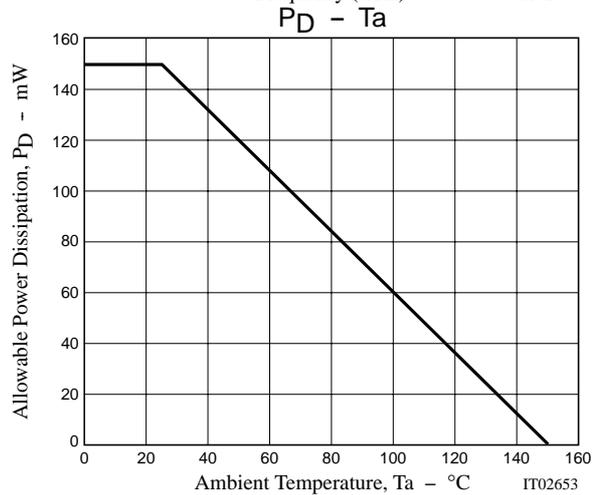
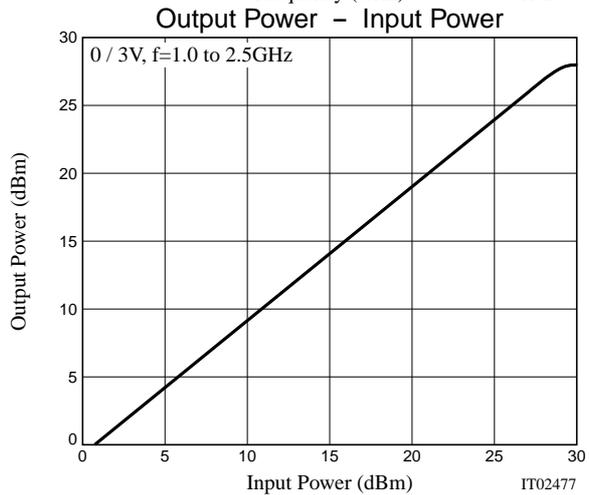
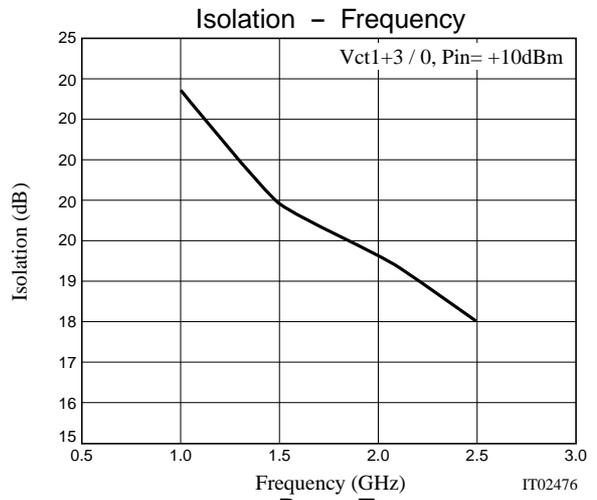
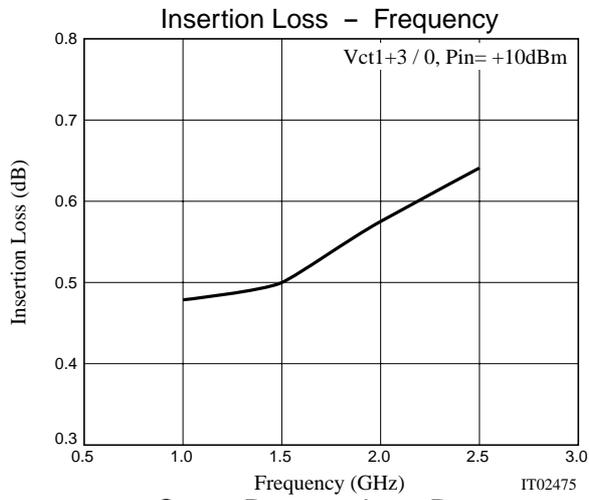
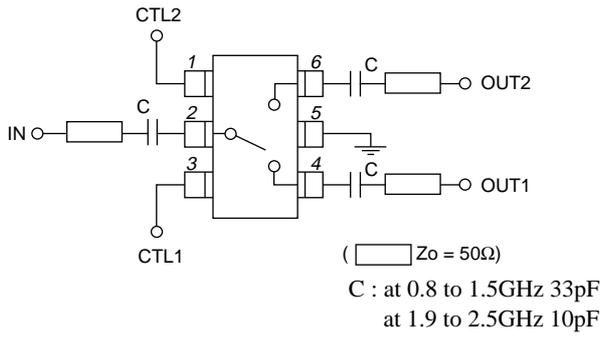
Marking : MM4

| CTL1 | CTL2 | |
|------|------|-----------|
| +3V | 0V | IN → OUT1 |
| 0 | +3V | IN → OUT2 |

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Application Circuit



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