

SP3T GaAs MMIC Switch

For CDMA, AMPS, and PCS Applications

NJR
NEWS

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NJG1548

NJG1548 GaAs MMIC Switch

NJRC is a leader in GaAs MMIC technology.

GENERAL DESCRIPTION

NJG1548 is a GaAs high power SP3T switch MMIC for antenna switch of dual or triple mode cellular phone applications such as CDMA, AMPS and PCS systems.

NJG1548 features low insertion loss and high isolation under high passing power level.

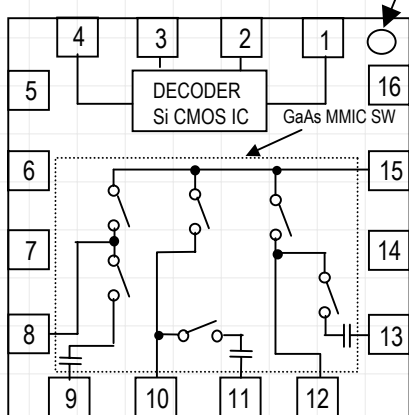
NJG1548 has a logic circuit, which enables the switch to Operate by 2-bit control. The ultra small and ultra thin FFP package is used.

Features

- Low voltage operation: 2.5V
- Pin at 0.2dB compression point: 36dBm typ. @f=0.9GHz, $V_{CTL}=2.7V$
- Low insertion loss: 0.4dB typ. @f=0.9GHz, $P_{IN}=25dBm$, $V_{CTL}=2.7V$
0.5dB typ. @f=1.9GHz, $P_{IN}=25dBm$, $V_{CTL}=2.7V$
- High isolation: 30dB typ. @f=0.9GHz, $P_{IN}=25dBm$, $V_{CTL}=2.7V$
30dB typ. @f=1.9GHz, $P_{IN}=25dBm$, $V_{CTL}=2.7V$
- Ultra small & ultra thin package: FFP16-C1
(Package size: 2.5x2.5x0.85mm)

Pin Configuration

FFP16-C1 Type (TOP VIEW)



Pin Connection

1. GND	9. GND
2. CTL2	10. RF2
3. CTL1	11. GND
4. VDD	12. RF1
5. GND	13. GND
6. GND	14. GND
7. GND	15. ANT
8. RF3	16. GND

Truth Table

"H"=CTL(H), "L"=CTL(L)

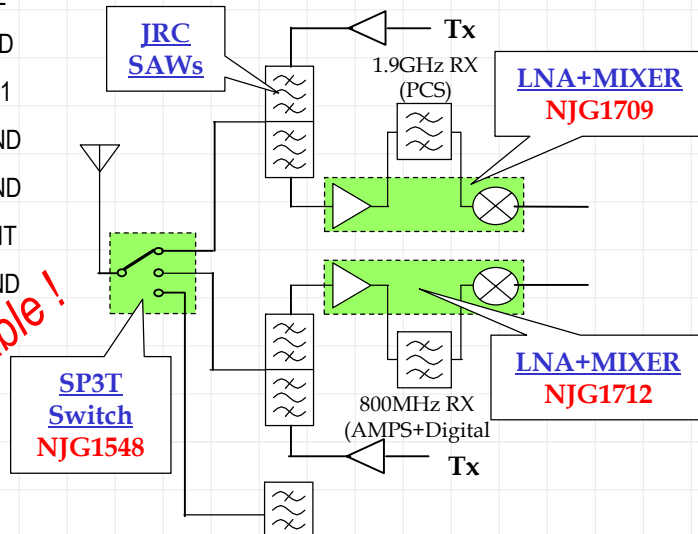
CTL1	CTL2	Path
H	L	ANT-RF1
L	H	ANT-RF2
H	H	ANT-RF3

NOW Available !

Applications

- Code-Division Multiple Access (CDMA)
- Advanced Mobile Phone System (AMPS)
- Personal Communications System (PCS)

Typical Application



Tri-mode CDMA / AMPS / PCS



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