# Wireless LAN DPDT GaAs MMIC SWITCH

For IEEE 802.11a & IEEE802.11b/g (Combo Type)

NJR NEWS

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## NJG1617

NJRC is a leader in GaAs MMIC technology.

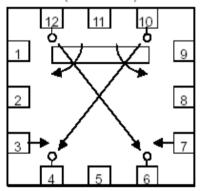
#### GENERAL DESCRIPTION

The NJG1617K11 is a DPDT MMIC switch which features low insertion loss, high isolation, wide frequency range (0.1-over 6GHz) and low voltage operation from 2.7V. This switch is ideally suited for wireless LAN IEEE 802.11b/802.11g (2.4GHz band) and IEEE 802.11a (5GHz band) applications.

Available in both the industrial standard QFN12-11 package and USB12-E3 package.

### **Pin Configuration**

(TOP VIEW)



# Truth Table "H"=V<sub>CTL(H)</sub>, "L"=V<sub>CTL(L)</sub>

PASS	CONTROL SIGNAL	
	VCTL1	VCTL2
ANT1-TX ANT2-RX	L	Н
ANT1-RX ANT2-TX	Н	٦

## NJG1617 GaAs MMIC Switch

#### **Features**

- ➤ Low voltage operation: 2.7 to ~5V
- ➤ Pin at 0.2dB compression point: 32dBm typ. @f=6.0GHz, V<sub>CTL</sub>=3.0V
- ➤ Low insertion loss: 0.7 dB typ. @f=2.5GHz

0.75 dB typ. @f=6.0GHz

➤ High isolation: 30 dB typ. @f=2.5GHz 25 dB typ. @f=6.0GHz

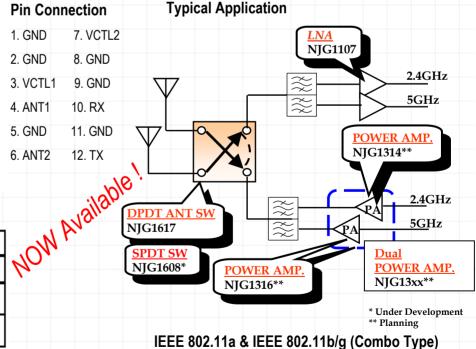
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Ultra small & ultra thin package:

QFN12-11 (Package size: 3.0x3.0x0.75mm) USB12-E3 (Package size: 2.35x2.35x0.75mm)

## **Applications**

➤ Wireless LAN



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