

0.5 - 6.0GHz High Power SPDT 10W Switch

- ✓ Ultra low insertion Loss and high power are compatible until the 6 GHz
- ✓ High speed switching time is perfect for 5G communication

■ Why does above matter?

With the commercialization of 5G, the market for small cells and other base stations is growing rapidly. Therefore, the needs of the high power and High speed switching time switch for 5G Base station increase too.

Those types of high power switch, the low loss performance is important and major challenge. Especially, to support 5G system, the SPDT switch is necessary, which has low loss up to high bands such as 3.85 and 4.7GHz. And 5G is high-speed communication system, so needs the high speed switching time to switch the TX and RX signals.

The NJG1817ME4 is a high power SPDT switch with high power handling capability of up to 40dBm, and is a wideband switch with low-loss up to the high frequency until 6GHz. Furthermore, 150ns high switching speed of the NJG1817ME4 is enough capable on 5G high-speed communications.

The NJG1817ME4 is packaged in 12pin, 2mmx2mm EQFN small size package. So high powered switches can be made smaller.

■ Features

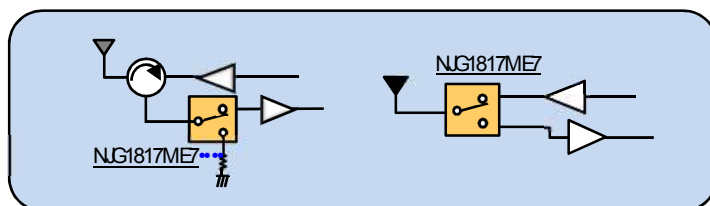
- ▶ Control voltage: 2.7 to 5.0V
- ▶ Low insertion loss: 0.35/0.4/0.45 dB typ.
@f = 3.85/4.7/6.0 GHz
- ▶ High isolation: 27/27/25 dB typ.
@f = 3.85/4.7/6.0 GHz
- ▶ P_{0.1dB}: +40 dBm typ. @f=3.85/4.7/6.0GHz
- ▶ High speed switching time: 150 ns typ.
- ▶ Small package: EQFN12-E4 2.0 x 2.0 mm², 12-pin
- ▶ RoHS compliant and Halogen Free, MSL1

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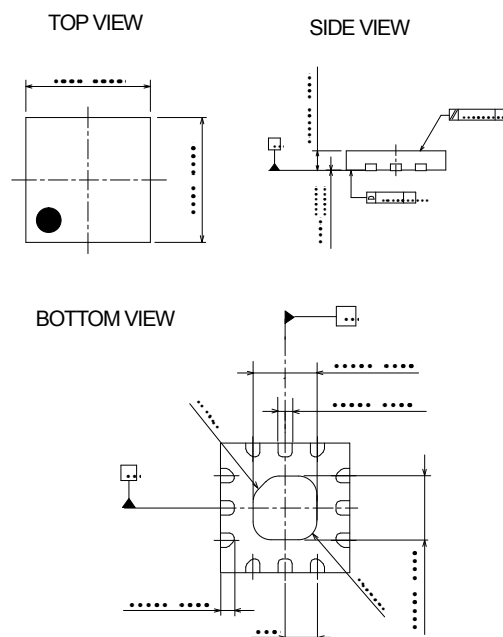
■ Application

- ▶ 5G (Sub-6GHz) small cell system
- ▶ Commercial radio system
- ▶ TX/RX switching applications
- ▶ General purpose switching applications

■ Application Block Example



■ Package information (EQFN12-E4)



■ Datasheet Link



* All information, specifications and product descriptions in this document are subject to change at any time, without prior notice.
* Contact your local NJR office or your distributor to obtain the latest specifications before placing your product order.



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