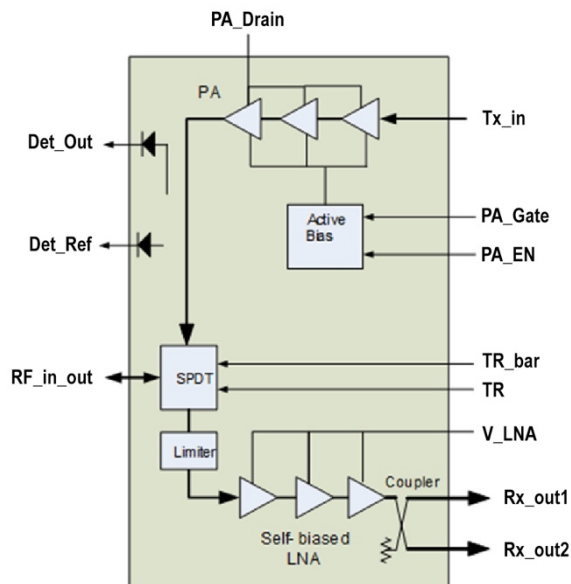


Product Features

- 8.50 – 10.55 GHz operation
- Integrated PA/LNA/limiter/switch
- 4W Tx pulsed Psat
- +30 dB Tx linear gain
- 3.3 dB Rx NF
- +24 dB Rx gain
- Dual Rx outputs
- Integrated T/R switch
- Integrated limiter
- Integrated output power detector
- Active biased PA
- Active self-biased LNA
- 7x7 mm QFN



Applications

Commercial and Weather RADAR

General Description

The AWMF-0106 is an integrated power amplifier, low noise amplifier, limiter, and T/R switch intended for RADAR phased array applications. The device provides 30 dB linear gain and 4W saturated pulsed output power during Tx mode; 24 dB gain and 3.3 dB noise figure during Rx mode. Additional features include Tx output power detection, active bias of the power amplifier stages, and active self-bias of the low noise amplifier stages. Dual Rx outputs are provided to enable dual Rx beam phased array applications. The device features ESD protection and is packaged in a 7x7 mm, 56 lead QFN for easy installation in planar phased arrays.



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Document: AWMF-0106-DSB
 Rev. 4

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AWMF-0106 Developer Kit

The AWMF-0106-DL includes all hardware required to interface to the AWMF-0106 in drain switching mode. It enables full evaluation and RF testing of the MMIC. The test board has been carefully designed to easily replicate the performance of the device. DC power is supplied to the test board through the supplied cable assembly and drain switching pulser board. A full set of measured data is included to provide reference performance for each Developer Kit. Evaluation of the AWMF-0106 with the Developer Kit will significantly shorten the time to become familiar with the operation and performance of the product, thereby reducing system development time and cost.

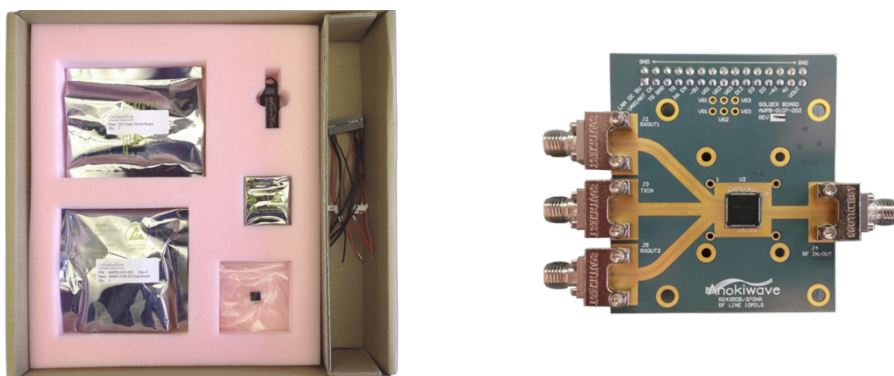


Figure 1: AWMF-0106-DL Contents and Evaluation Board

Developer Kit Contents

- 1 x Test board with 4 x RF connectors, 1 x DC connector, and control connector
- 1 x Drain switching pulser board
- 1 x AWMF-0106 mounted on evaluation board
- 1 x Power/control cable assembly
- Control software with User Guide, full test results, and board calibration

Ordering Guide

Model	Package	MSL Rating	Package Description	Package Option	Package Marking
AWMF-0106	QFN		7x7 mm 56 LD QFN		AWMF-0106 YYWW ZZZZZZ
AWMF-0106-DL			Developer's Kit for evaluation		