

Product Brief

AFEM-W750

Wi-Fi 7, 5-GHz High Efficiency, Nonlinear FiFEM

Key Features

- 5 GHz FBAR Band-Pass filter (UNII-1 to UNII-3) integrated
- 6 GHz CoEx, rejection (5945 to 7125 MHz): > 50 dB
- High Power Pout +25 dBm, MCS0 20 MHz
- Med Power Pout +23 dBm, MCS0 20 MHz
- Broadcom WiFAM Gen-2 Certified (Wireless FEM Active Management)
- Compatible with Dynamic Bias Handling Technology
- 24-pin surface-mount package
- Integrated detector
- Small size (3.0 x 5.0 mm²)
- Package height 0.8 mm
- WCC Reference design
- Internal 50Ω matching networks for both RF input and output
- Green
 - Lead-free
 - RoHS 6 compliant

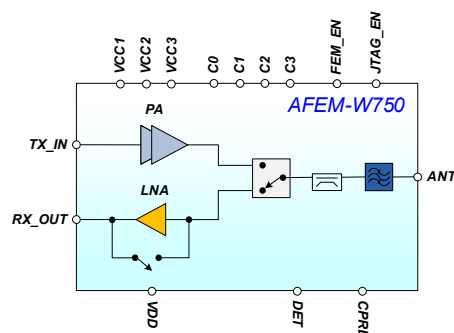
Overview

The Broadcom® AFEM-W750 is a FiFEM (FBAR integrated Front End Module) which includes a power amplifier (PA), a high-gain low-noise amplifier (LNA), a transmit/receive (T/R) switch and a bandpass FBAR filter for coexistence with 6 GHz Wi-Fi.

Applications

- Access Points
- Wireless Routers
- Residential Gateways
- Wi-Fi Extenders

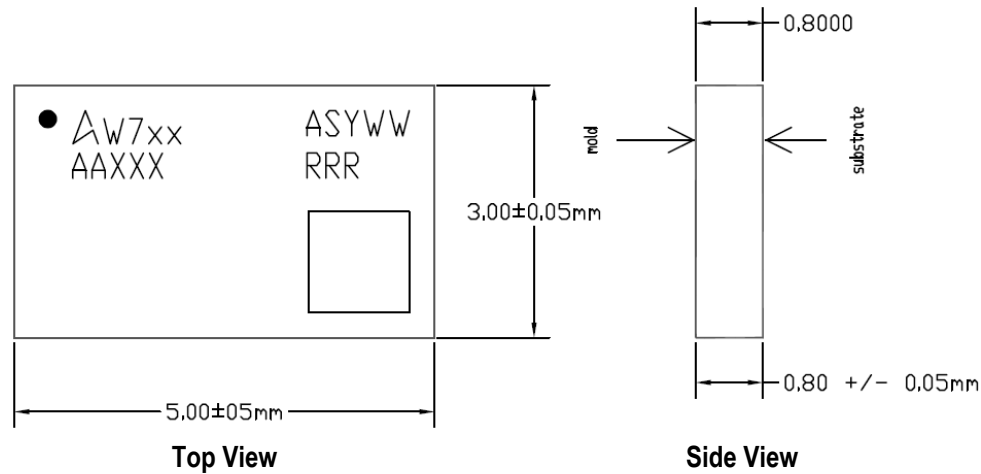
Functional Block Diagram



Ordering Information

Part Number	Number of Devices
AFEM-W750-HP1	1000
AFEM-W750-MP1	1000

Package Outline Drawing

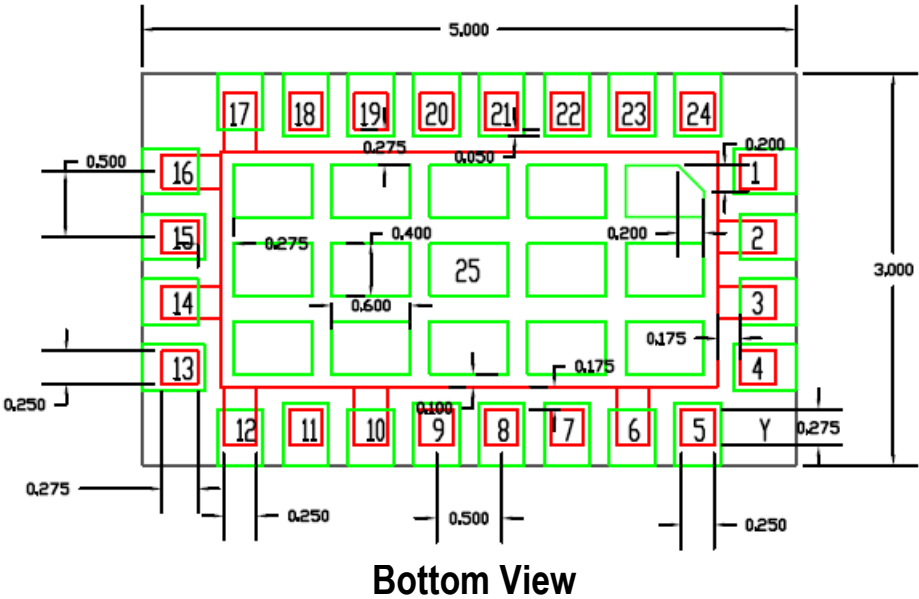


Notes unless otherwise specified:

- Dimensions in millimeters

Marking:

- Line 1: Broadcom part number
- Line 2: Broadcom internal use
- Line 3:
 - A = Country code = "K"
 - S = Manufacturing site code = "M"
 - Y = Last digit of the year
 - WW = Manufacturing work week
- Line 4: Broadcom internal use



Exposed Metal Pad Dimensions Pad Tolerance ±0.025		
Pin Number	X	Y
1-4, 13-16	0.275	0.250
5-12, 17-24	0.250	0.275
25	0.600	0.400