



**THE DATASHEET OF
AJAV-6752-TR1**



AJAV-6752

WCDMA/HSPA Band 2 and Band 5 3.0 mm × 4.2 mm Dual-Band Power Amplifier Module

Product Brief

Description

The AJAV-6752 is a complete, high-performance power amplifier for WCDMA and HSPA wireless communications. Based on a unique, patented architecture, the AJAV-6752 integrates circuitry for Tx filtering, RF coupling, power regulation, input and output matching, and power control. The PA (power amplifier) is powered by a connection to the battery and is implemented in a standard CMOS process.

The AJAV-6752 contains integrated directional couplers, 50-ohm input and output matching networks, and RF input and output DC blocking capacitors. All of these functions are integrated in a 15-pin surface-mount leadless package of 3 mm × 4.2 mm form-factor and 0.9-mm thickness, so it can minimize the number of external components.

The integrated LB and HB directional couplers are daisy-chained internally. One coupler input port and one coupler output port are shared by the both bands.

The AJAV-6752 has integrated on-chip Vref and on-module bias switch, so the external LDO regulators and switches for external Vref are not required. It also makes the PA fully digital-controllable by the baseband chipset. The Ven pin turns the PA on and off by the digital control signal. All of the digital control input pins, such as the Ven, Vmode0, and Vmode1, are fully CMOS compatible down to the 1.8V logic.

Features

- Thin package (0.9 mm typical)
- Fifteen-pin surface mounting package
- Small 3 mm × 4.2 mm package size
- Internal 50-ohm matching networks for both RF input and output
- Three-mode power control with Vmode0 and Vmode1
- Compatible with the APT application
- Low average current
- High capacity CMOS process
- High-performance 3G power amplifier
 - UMTS Band 2 (1850 MHz ~ 1910 MHz)
 - UMTS Band 5 (824 MHz ~ 849 MHz)
 - WCDMA, HSPA, and HSPA+ compliant
- Integrated Tx filtering
 - Delivers the best noise in the industry
- Integrated coupler
 - Coupler and Isolation ports for daisy chain
- Green – Lead-free and RoHS compliant

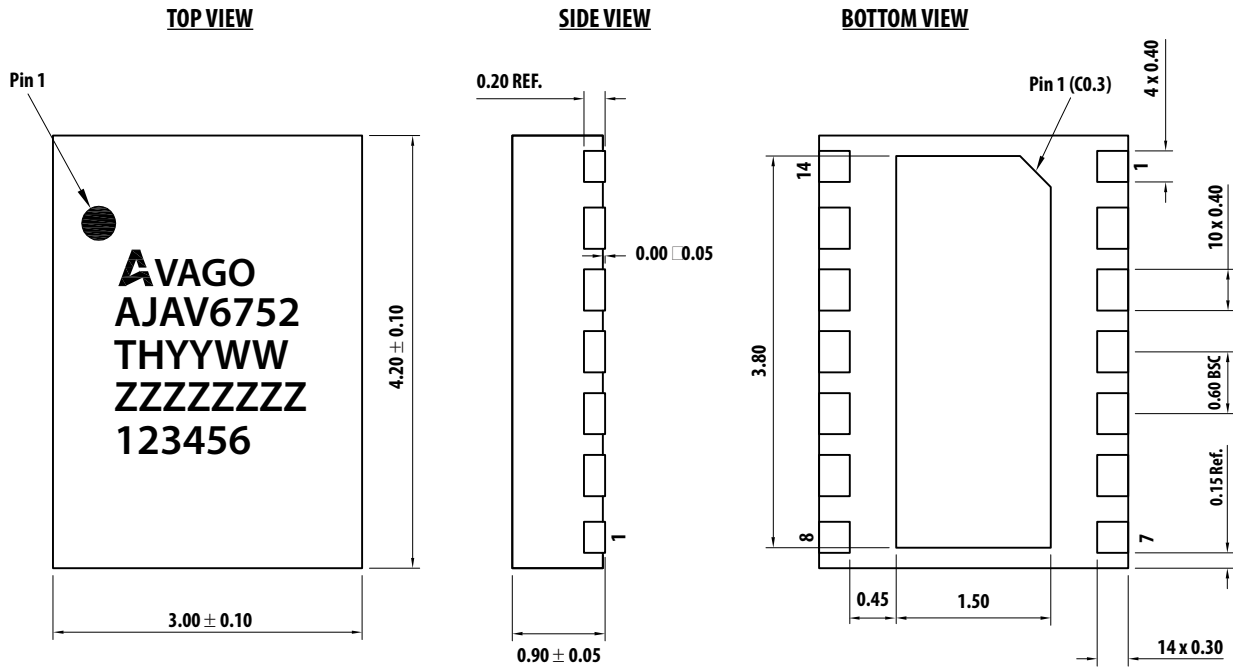
Applications

- Band 2 UMTS
- Band 5 UMTS

Ordering Information

Part Number	Number of Devices	Container
AJAV-6752-TR1	1,000	178 mm (7 in.) tape/reel

Marking Specification and Package Dimensions



AJAV6752 = Device Code
 T = Country Code
 H = Manufacturing Site Code
 YY = Year
 WW = Work Week
 ZZZZZZ = Assembly lot #
 123456 = International Marking Identification

Tolerances:

.x ± .1
 .xx ± .05

Dimensions are in mm

Pin Description

Pin #	Name	Description
1	LB_EN	Low band enable
2	LB_In	Low band input
3	VBAT	DC supply voltage
4	HB_In	Low band input
5	VM1	Mode control
6	VM0	Mode control
7	HB_EN	High band enable
8	CPLO	Coupler output
9	GND	RF input
10	CPLI	Coupler input
11	HB_OUT	High band output
12	VCC	DC supply voltage
13	GND	Ground
14	LB_OUT	Low band output
15	GND	Ground

For product information and a complete list of distributors, please go to our web site:

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