

# ACPM-7620

## Multiband Multimode PA Quad-Band GSM/EDGE and Multi Mode B1/B2/B3/B4/B5(26)/B8/B20/B34/B39

### Product Brief

#### Description

The ACPM- 7620 is a multiband, multimode PA (power amplifier) that supports GMSK and 8-PSK modulation schemes and UMTS/LTE bands 1, 2/25, 3, 4, 5/26, 8, and 20. The ACPM-7620 supports both the ET (envelope tracking) and APT (average power tracking) operations.

Input and output terminals are internally matched to 50 ohms. The power amplifier is manufactured on an advanced InGaP HBT technology that offers state-of-the-art reliability, temperature stability, and ruggedness. This module is housed in a cost effective, extremely small and thin 5 mm × 7 mm package.

#### Features

- Quad-band GSM/EDGE
- UMTS/LTE B1, B2/25, B3, B4, B5/26, B8, and B20
- TD-SCDMA B34/B39 and TD-LTE B39
- Compatible with MIPI RFFE
- Small size (7 mm × 5 mm)
- Excellent linearity
- High efficiency
- Bias (quiescent current) control by MIPI RFFE
- Forty-two-pin surface mounting package
- Internal 50-ohm matching networks for both RF input and output
- Green – Lead-free and RoHS compliant

#### Application

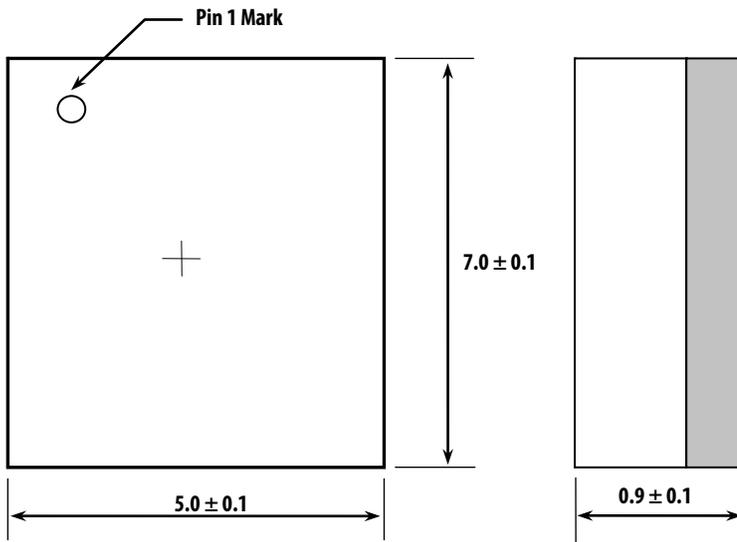
- GSM850/900, DCS1800/PCS1900
- UMTS/LTE B1
- UMTS/LTE B2, LTE B25, C2K BC1
- UMTS/LTE B3
- UMTS/LTE B4
- UMTS/LTE B5, LTE B26, C2K BC0
- UMTS/LTE B8
- LTE B20

#### Ordering Information

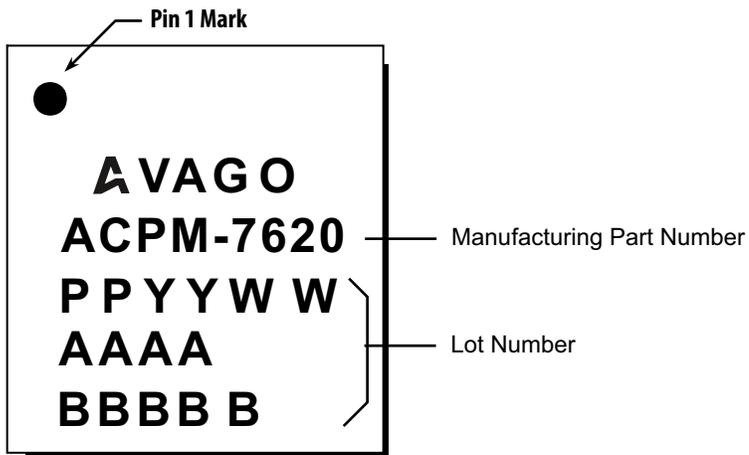
Part Number	Number of Devices	Container	Description
ACPM-7620-TR1	1,000	178 mm (7 in.) tape/reel	ET and APT

## Package Dimensions

The dimensions are in millimeters.



## Marking Specification



## Pin Description

		GND	GND	GND	GND	GND	NC	GND		
RFIN B1_B2	1	42	41	40	39	38	37	36	35	RFOUT B1
RFIN B3_B4	2								34	RFOUT B3
RFIN B26	3								33	RFOUT B4
RFIN B5_B8	4								32	RFOUT B2
RF_In_B20	5								31	RFOUT B5_B26
VIO	6								30	RF_Out_B20
GND	7								29	RFOUT B8
SCLK	8								28	VCC13G
SDATA	9								27	VCC23G
GND	10								26	VCC GSM
VBATT	11								25	GND
GND	12								24	RFOUT 2G HB
RFIN 2G HB	13								23	GND
RFIN 2G LB	14	15	16	17	18	19	20	21	22	RFOUT 2G LB
		GND								

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

[www.avagotech.com](http://www.avagotech.com)

Avago, Avago Technologies, and the A logo are trademarks of Avago Technologies in the United States and other countries. All other brand and product names may be trademarks of their respective companies.

Data subject to change. Copyright © 2015 Avago Technologies. All Rights Reserved.

AV02-4875EN – 2015-03-24

**AVAGO**  
TECHNOLOGIES



