



**THE DATASHEET OF
ACPM-7600-SG1**



ACPM-7600

Multiband Multimode PA Quad-Band GSM/EDGE and Multi Mode B1/B2(25)/B3/B4/B5(26)/B8

Product Brief

Description

The ACPM-7600 is a multiband multimode PA that supports GMSK and 8-PSK modulation schemes and UMTS/LTE bands 1, 2(25), 3, 4, 5/26 and 8. The ACPM-7600 is designed to support both ET (envelope tracking) and APT (average power tracking) operation.

Input and output terminals are internally matched to 50 ohms. The power amplifier is manufactured on an advanced InGaP HBT technology offering 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

- Supports both ET and APT
- Quad Band GSM/EDGE
- UMTS B1, B2/25, B3, B4, B5/26, and B8
- Compatible with MIPI RFFE
- Small Size (7 mm × 5 mm)
- Excellent linearity
- High efficiency
- Bias (quiescent current) control by MIPI RFFE
- 42-pin surface mounting package
- Internal 50 Ω matching networks for both RF input and output
- Green – lead-free and RoHS compliant

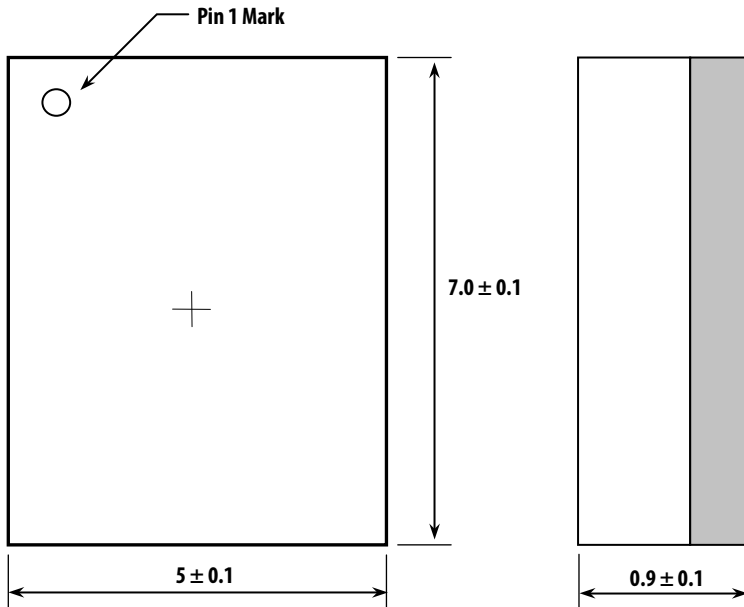
Applications

- GSM850/900, DCS1800/PCS1900
- UMTS/LTE B1, C2K BC6
- UMTS/LTE B2, LTE B25, C2K BC1
- UMTS/LTE B3
- UMTS/LTE B4, C2K AWS
- UMTS/LTE B5, LTE B26, C2K BC0
- UMTS/LTE B8

Ordering Information

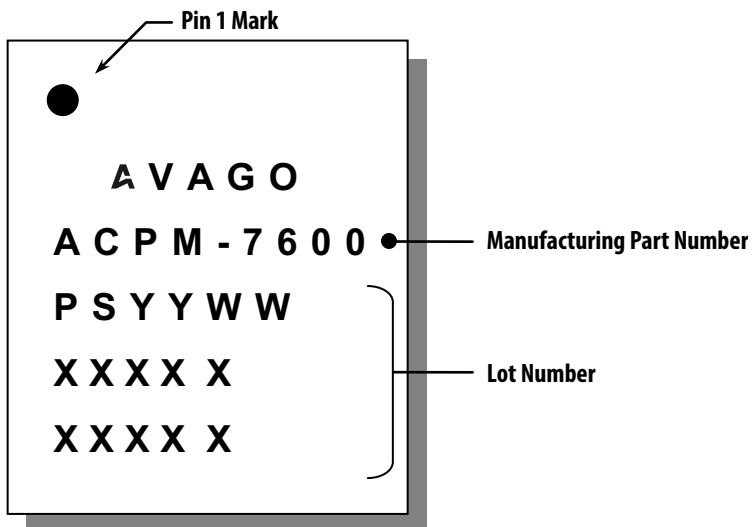
| Part Number | Number of Devices | Container | Description |
|---------------|-------------------|--------------------------|---------------------|
| ACPM-7600-TR1 | 1000 | 178 mm (7 in.) tape/reel | ET and APT |
| ACPM-7600-CV1 | 1000 | 178 mm (7 in.) tape/reel | APT only |
| ACPM-7600-BLK | 100 | Bulk | Bulk for ET and APT |

Package Dimensions



All dimensions in millimeters

Marking Specification



Pin Description

| | | | | | | | | | | |
|--------------|----|-----|-----|-----|-----|-----|-----|-----|----|---------------|
| | | GND | GND | GND | GND | GND | NC | GND | | |
| RF_IN_B1_B2 | 1 | 42 | 41 | 40 | 39 | 38 | 37 | 36 | 35 | RF_OUT_B1 |
| RF_IN_B3_B4 | 2 | | | | | | | | 34 | RF_OUT_B3 |
| RF_IN_B26 | 3 | | | | | | | | 33 | RF_OUT_B4 |
| RF_IN_B5_B8 | 4 | | | | | | | | 32 | RF_OUT_B2 |
| GND | 5 | | | | | | | | 31 | RF_OUT_B5_B26 |
| VIO | 6 | | | | | | | | 30 | GND |
| GND | 7 | | | | | | | | 29 | RF_OUT_B8 |
| SCLK | 8 | | | | | | | | 28 | VCC1 |
| SDATA | 9 | | | | | | | | 27 | VCC2 |
| GND | 10 | | | | | | | | 26 | VCC GSM |
| VBATT | 11 | | | | | | | | 25 | GND |
| GND | 12 | | | | | | | | 24 | RF_OUT_GSM_HB |
| RF_IN_GSM_HB | 13 | | | | | | | | 23 | GND |
| RF_IN_GSM_LB | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | RF_OUT_GSM_LB |
| | | GND | GND | GND | GND | GND | GND | GND | | |

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

www.avagotech.com

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