

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

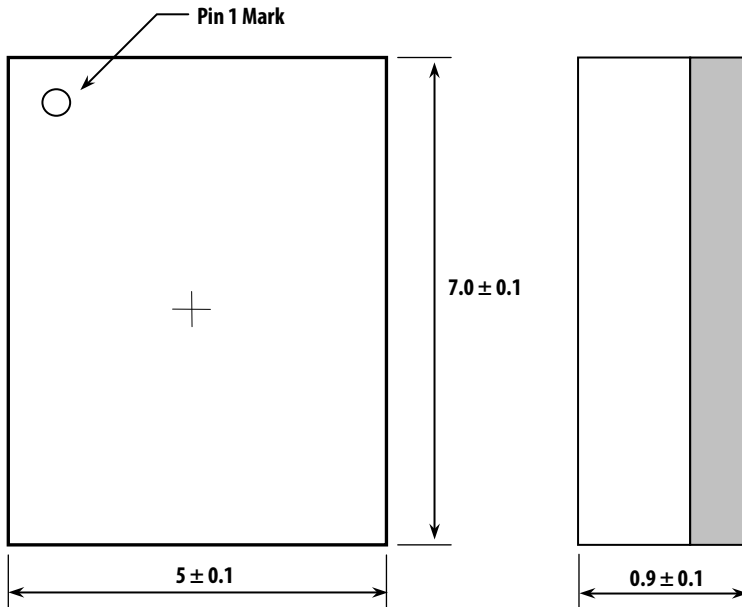
Applications

- 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

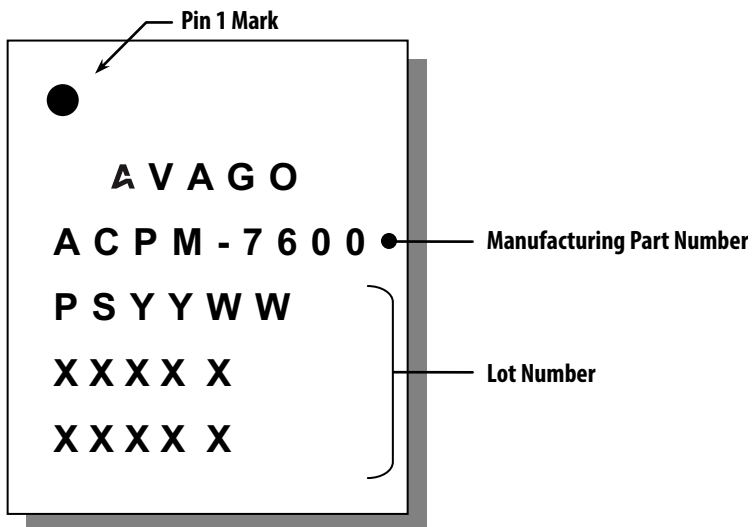
Part Number	Number of Devices	Container	Description
ACPM-7600-TR1	1000	178 mm (7 in.) tape/reel	ET and APT
ACPM-7600-CV1	1000	178 mm (7 in.) tape/reel	APT only
ACPM-7600-BLK	100	Bulk	Bulk for ET and APT

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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