

ACPM-9407

LTE Band 7 MIPI ET PA

2.0 mm × 2.5 mm

Power Amplifier Module

Product Brief

Description

The ACPM-9407 is a fully matched 10-pin surface mount power amplifier module developed for LTE Band 7. The 2 mm × 2.5 mm form-factor package is self contained, and it incorporates 50-ohm input and output matching networks.

The ACPM-9407 features CoolPAM circuit technology that supports two power modes—low and high. The CoolPAM is a stage bypass technology that enhances PAE (power added efficiency) at low power range.

The power amplifier is manufactured on an advanced InGaP HBT (hetero-junction bipolar transistor) MMIC (microwave monolithic integrated circuit) technology that offers state-of-the-art reliability, temperature stability, and ruggedness.

Features

- Thin package (0.82 mm typical)
- Small size (2 mm × 2.5 mm)
- Excellent linearity in envelope tracking mode
- High efficiency at peak power envelope power
- Compatible with MIPI RFFE
- Two-mode power
- Quiescent current control for high power mode and low power mode
- Ten-pin surface mounting package
- Internal 50-ohm matching networks for both RF input and output
- Separate drive and output VCC supplies
- Low bypass capacitance
- Green – Lead-free and RoHS compliant

Application

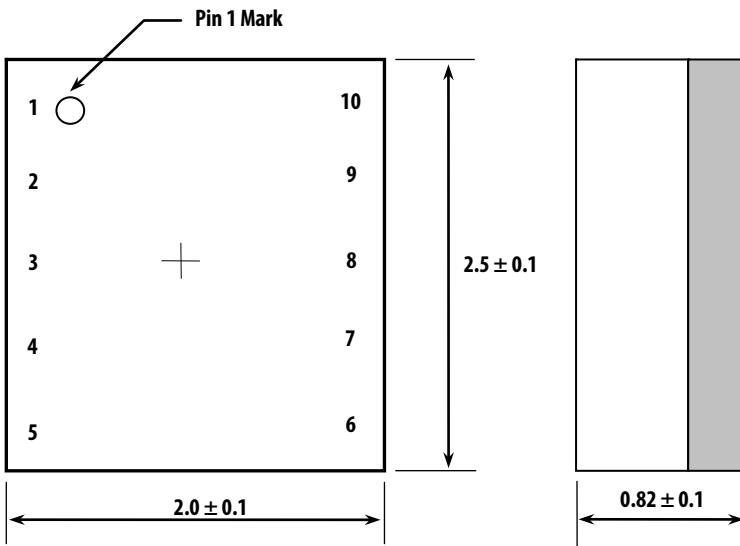
- LTE Band 7

Ordering Information

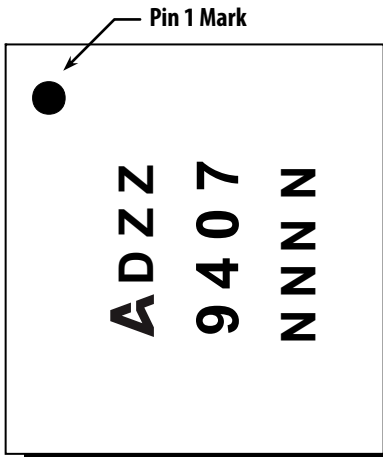
Part Number	Number of Devices	Container
ACPM-9407-TR1	1,000	178 mm (7 in.) tape/reel

Package Dimensions

The dimensions are in millimeters.



Marking Specification



- D – Date Code
- ZZ – Assembly Lot Identification
- 9407 – Device Code

Pin Description

Pin #	Name	Description
1	VCC1	DC supply voltage, connect to the RF stages' collector to which APT/ET is applied (0.5V~3.5V)
2	RFIN	RF input
3	Vbat	DC supply voltage, connect to the bias circuitry with a fixed voltage (higher than 3.0V)
4	Vio	RFFE enable
5	Sdta	RFFE data
6	Sclk	RFFE clock
7	GND	Ground
8	NC	No connection
9	RFOUT	RF output
10	VCC2	DC supply voltage, connect to the RF stages' collector to which APT/ET is applied (0.5V~3.5V)

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

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.

AV02-4858EN – 2015-03-24

AVAGO
TECHNOLOGIES

