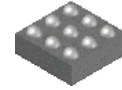


Regulator - Fixed-Output, Synchronous, TINYBOOST®

FAN48614



WLCSP9 1.215x1.215x0.581
CASE 567QW

Description

The FAN48614 is a low-power boost regulator designed to provide a minimum voltage-regulated rail from a standard single-cell Li-Ion battery and advanced battery chemistries. The combination of built-in power transistors, synchronous rectification, and low supply current suit the FAN48614 for battery-powered applications.

Features

- Input Voltage Range: 2.7 V to 4.5 V
- Output Voltage: 5.0 V
- Internal Synchronous Rectification
- True Load Disconnect
- Short-Circuit Protection
- Three External Components

Applications

- Class-D Audio Amplifier
- Boost for Low-Voltage Li-Ion Batteries
- Smart Phones, Tablets, Portable Devices
- RF Applications

Additional Information

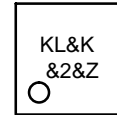
- For the full datasheet, please contact a **onsemi** Sales Representative.

ORDERING INFORMATION

Part Number	V _{OUT}	Operating Temperature	Package	Packing Method†
FAN48614BUC50X	5.0 V	-40 to 85°C	WLCSP9 1.215x1.215x0.581 (Pb-Free and Halide Free)	3000 / Tape and Reel

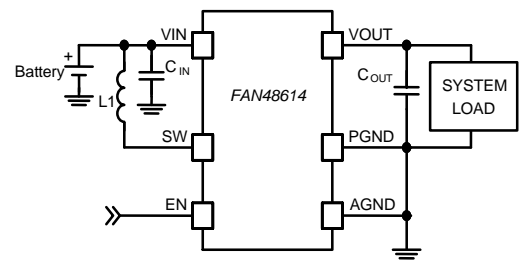
†For information on tape and reel specifications, including part orientation and tape sizes, please refer to our Tape and Reel Packaging Specifications Brochure, BRD8011/D.

MARKING DIAGRAM



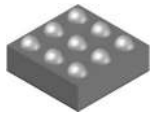
- KL = Specific Device Code
- &K = 2-Digits Lot Run Traceability Code
- &2 = 2-Digit Date Code
- &Z = Assembly Plant Code

TYPICAL APPLICATION



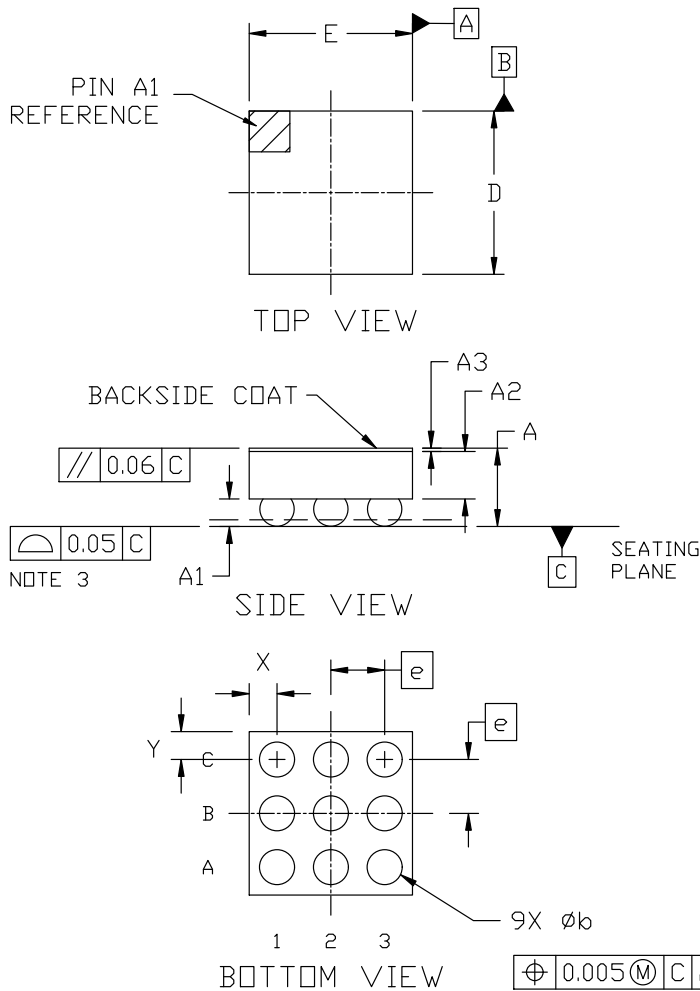
MECHANICAL CASE OUTLINE

PACKAGE DIMENSIONS



WLCSP9 1.215x1.215x0.581
CASE 567QW
ISSUE B

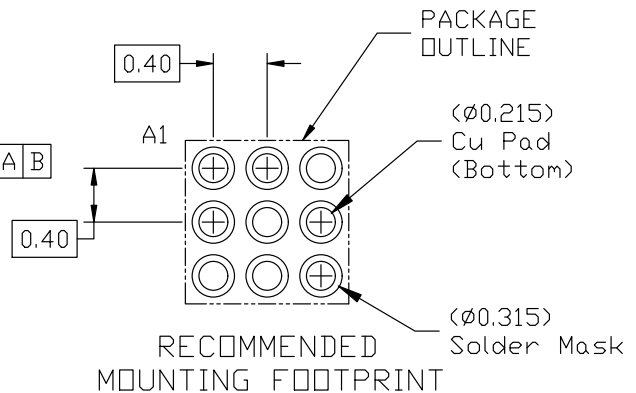
DATE 24 FEB 2023



NOTES:

1. DIMENSIONING AND TOLERANCING PER ASME Y14.5M, 2009.
2. CONTROLLING DIMENSION: MILLIMETERS
3. COPLANARITY APPLIES TO THE SPHERICAL CROWNS OF THE SOLDER BALLS.
4. DATUM C, THE SEATING PLANE, IS DEFINED BY THE SPHERICAL CROWNS OF THE SOLDER BALLS.
5. DIMENSION b IS MEASURED AT THE MAXIMUM SOLDER BALL DIAMETER PARALLEL TO DATUM C.

DIM	MILLIMETERS		
	MIN.	NDM.	MAX.
A	0.542	0.581	0.620
A1	0.183	0.203	0.223
A2	0.335	0.353	0.371
A3	0.022	0.025	0.027
b	0.24	0.26	0.28
D	1.185	1.215	1.245
E	1.185	1.215	1.245
e	0.400 BSC		
X	0.208 REF		
Y	0.208 REF		



* For additional information on our Pb-Free strategy and soldering details, please download the onsemi Soldering and Mounting Techniques Reference Manual, SOLDERM/D.

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DESCRIPTION:	WLCSP9 1.215x1.215x0.581	PAGE 1 OF 1

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