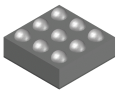
Regulator - Fixed-Output, Synchronous, TINYBOOST®

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

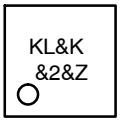
Applications

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

Additional Information

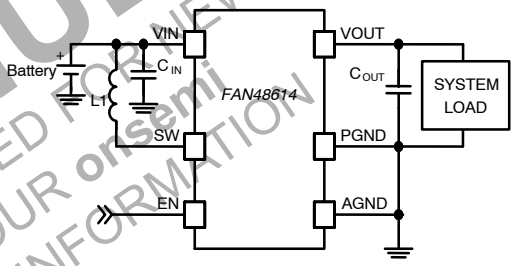
- For the full datasheet, please contact a **onsemi** Sales Representative.

MARKING DIAGRAM



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

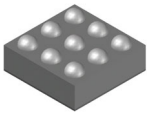
TYPICAL APPLICATION



ORDERING INFORMATION

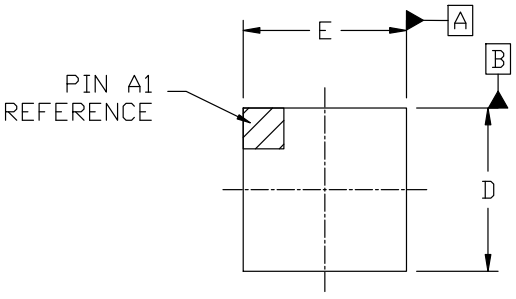
Part Number	V_{OUT}	Operating Temperature	Package	Packing Method†
FAN48614BUC50X	5.0 V	−40 to 85°C	WLCSP9 1.215x1.215x0.581 (Pb−Free and Halide Free)	3000 / Tape and Reel

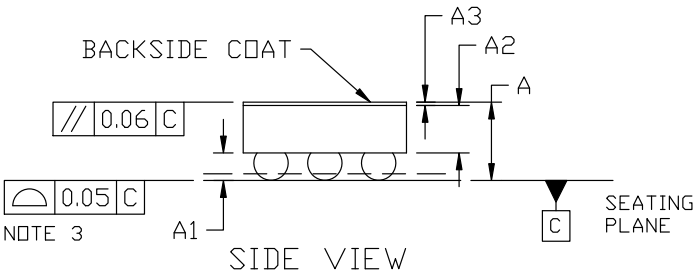
†For information on tape and reel specifications, including part orientation and tape sizes, please refer to our Tape and Reel Packaging Specifications Brochure, BRD8011/D.

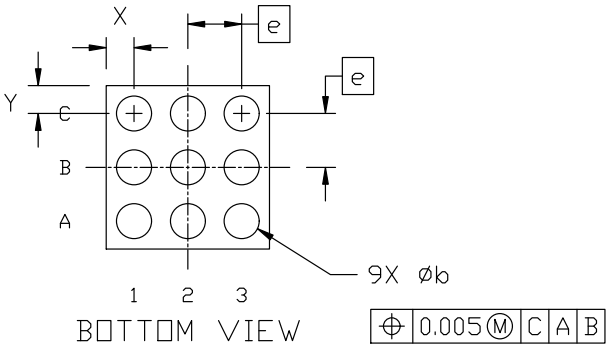


WLCSP9 1.215x1.215x0.581
CASE 567QW
ISSUE B

DATE 24 FEB 2023



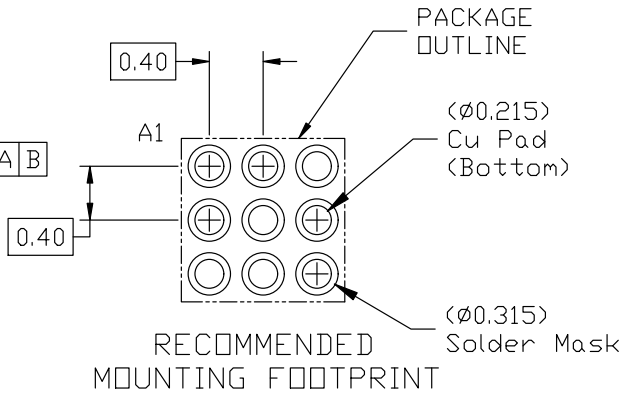




NOTES:

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.	NOM.	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, SOLDERRM/D.

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

ADDITIONAL INFORMATION

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