Table of Contents

OmniVision
OVM7690
CameraCube™
VGA CMOS Image Sensor

Package Analysis
Some of the information in this report may be covered by patents, mask and/or copyright protection. This report should not be taken as an inducement to infringe on these rights.

© 2011 Chipworks Inc.

This report is provided exclusively for the use of the purchasing organization. It can be freely copied and distributed within the purchasing organization, conditional upon the accompanying Chipworks accreditation remaining attached.

Distribution of the entire report outside of the purchasing organization is strictly forbidden. The use of portions of the document for the support of the purchasing organization’s corporate interest (e.g., licensing or marketing activities) is permitted, as defined by the fair use provisions of the copyright act. Accreditation to Chipworks must be attached to any portion of the reproduced information.

PKG-1109-801
22381CYRF

Revision 1.0  Published: November 30, 2011
Table of Contents

- Introduction
- Device Identification
- SEM-EDS of Major Package Features
- Camera Module Photographs – Top and Bottom
- Camera Module Photographs – Side View
- Camera Module X-Ray Photographs – Side View
- Package Cross-Sectional Overview
- Glass 5 – Overview
- Glass 5 – Top and Bottom Coatings
- Glass 4/Glass 5 Interface
- Glass 4 – Overview
- Glass 3/Glass 4 Interface
- Glass 3 – Overview
- Lens Cavity – Overview
- Upper Lens – Center and Edge Profiles
- Lower Lens – Center and Edge Profiles
- Glass 2/Glass 3 Interface
- Glass 2 – Overview
- Glass 1/Glass 2 Interface
- Glass 1 – Overview
- CIS Die Edge – Overview
- WL-CSP Lead-to-Die Metallization Interface
- Solder Ball and Package Land
- Camera Module Critical Dimensions Summary
- Statement of Measurement Uncertainty and Scope Variation
- About Chipworks
About Chipworks

Chipworks is the recognized leader in reverse engineering and patent infringement analysis of semiconductors and electronic systems. The company’s ability to analyze the circuitry and physical composition of these systems makes them a key partner in the success of the world’s largest semiconductor and microelectronics companies. Intellectual property groups and their legal counsel trust Chipworks for success in patent licensing and litigation – earning hundreds of millions of dollars in patent licenses, and saving as much in royalty payments. Research & Development and Product Management rely on Chipworks for success in new product design and launch, saving hundreds of millions of dollars in design, and earning even more through superior product design and faster launches.

Contact Chipworks
To find out more information on this report, or any other reports in our library, please contact Chipworks at 1-613-829-0414.

Chipworks
3685 Richmond Road, Suite 500
Ottawa, Ontario  K2H 5B7
Canada
T  1-613-829-0414
F  1-613-829-0515
Web site:  www.chipworks.com
Email:  info@chipworks.com

Please send any feedback to feedback@chipworks.com