

Customer Service Note

Protective Film for Packaged Imagers

Introduction

Aptina tests and packages CMOS image sensors in a Class 1000 cleanroom. Customer manufacturing, however, is typically performed in a non-cleanroom environment. This exposure has the potential to compromise the quality and functionality of the imagers. For added glass protection, Aptina offers an optional protective film for these devices. This customer service note describes the protective film used and the recommended procedure for removing it.

Glass Protective Film

At a minimum, the protective film covers the glass directly above the active array of packaged CMOS image sensors. The size and shape of the protective film varies by device and package type.

The protective film withstands the standard surface-mount technology (SMT) reflow maximum temperature of 265°C. It passes IPC/JEDEC J-STD-020C reflow standards and 3x and 1x reflow tests with no adverse material issues and no adhesive left behind after removal.

The protective film is not qualified for any aqueous or chemical wash steps.

Recommended Removal Procedure

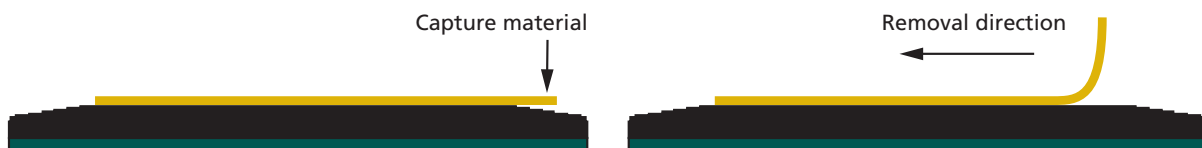
The protective film should be removed prior to assembly test of the final product; if not removed, the film could skew optical test results.

Removal of the protective film should be performed using standard ESD precautions. Ionization fans are recommended.

Material is made available to capture the protective film for removal. Size, shape, and location of the capture material varies by device and package type.

To remove the protective film, the capture material should be pulled at a 135+ degree angle in the direction opposite the capture material orientation (see Figure 1). Using plastic-tipped tweezers is recommended to reduce package and glass contact damage. Because the protective film could potentially adhere to other surfaces, it should be disposed of immediately after removal.

Figure 1: Protective Film Removal



Revision History

Rev. A	10/08
• Initial release	

3080 North 1st Street, San Jose, CA 95134 prodmtg@aptina.com www.aplina.com
Aptina, Aptina Imaging, and the Aptina logo are the property of Micron Technology, Inc.
All other trademarks are the property of their respective owners.