SEMI D38-0211 (Reapproved 0117)
GUIDE FOR QUALITY AREA OF LCD MASKS

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1 Purpose

1.1 This Guide defines the quality area of LCD masks.

2 Scope

2.1 This Guide applies to masks that are principally used in fabricating liquid crystal displays. The mask size specifies range from 202.8 × 202.8 mm to 1220 × 1400 mm.

2.2 Substrates with an edge length less than 200 mm follow the specifications for a semiconductor mask (see SEMI P1).

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3 Referenced Standards and Documents

3.1 *SEMI Standards and Safety Guidelines*

SEMI D6 — Specification for Liquid Crystal Display (LCD) Mask Substrates

SEMI P1 — Specification for Hard Surface Photomask Substrates

NOTICE: Unless otherwise indicated, all documents cited shall be the latest published versions.

4 Terminology

4.1 None.

5 Quality Area of LCD Masks

5.1 For Mask Size ≤ 550 × 650 mm:

- 10 mm from (peripheral) edge of blanks

5.2 For Mask Size > 550 × 650 mm, ≤ 700 × 800 mm:

- 20 mm from (peripheral) edge of blanks

5.3 For Mask Size 700 × 800 mm, ≤ 850 × 1200 mm:

- 30 mm from (peripheral) edge of blanks

5.4 For Mask Size 850 × 1200 mm, ≤ 1220 × 1400 mm:

- 35 mm from (peripheral) edge of blanks

5.5 The quality area should be within the area of the writing pattern.

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