

# Visual Criteria (VC) Specification

OPT-SPEC-1003, Rev A

| VC0  |                                     |                              | VC1  |                                     |                              | VC2  |   |                                   | VC4  |   |                                   |
|--|-------------------------------------|------------------------------|--|-------------------------------------|------------------------------|--|---|-----------------------------------|--|---|-----------------------------------|
| Defect   | Spec                                | #Allowed                     | Defect   | Spec                                | #Allowed                     | Defect   | Spec  | #Allowed                          | Defect   | Spec  | #Allowed                          |
| <b>Contamination (Glass side)</b>                | >0.30mm<br>0.15-0.30mm<br><0.15mm   | none<br>6<br>no limit        | <b>Contamination (Glass side)</b>                | >0.30mm<br>0.15-0.30mm<br><0.15mm   | none<br>6<br>no limit        | <b>Contamination (Glass side)</b>                | >0.30mm<br>0.15-0.30mm<br><0.15mm             | none<br>6<br>no limit             | <b>Contamination (Glass side)</b>                | >0.30mm<br>0.15-0.30mm<br><0.15mm             | none<br>6<br>no limit             |
| <b>Liquid contamination (Aluminum side)</b>      | in clear aperture                   | none                         | <b>Liquid contamination (Aluminum side)</b>      | in clear aperture                   | none                         | <b>Liquid contamination (Aluminum side)</b>      | in clear aperture                             | none                              | <b>Liquid contamination (Aluminum side)</b>      | in clear aperture                             | none                              |
| <b>Particulate Contamination (Aluminum side)</b> | >0.30mm<br>0.15-0.30mm<br><0.15mm   | none<br>6<br>no limit        | <b>Particulate Contamination (Aluminum side)</b> | >0.30mm<br>0.15-0.30mm<br><0.15mm   | none<br>6<br>no limit        | <b>Particulate Contamination (Aluminum side)</b> | >0.30mm<br>0.15-0.30mm<br><0.15mm             | none<br>6<br>no limit             | <b>Particulate Contamination (Aluminum side)</b> | >0.30mm<br>0.15-0.30mm<br><0.15mm             | none<br>6<br>no limit             |
| <b>Dimensional</b>                               | Outside Customer Spec               | none                         | <b>Dimensional</b>                               | Outside Customer Spec               | none                         | <b>Dimensional</b>                               | Outside Customer Spec                         | none                              | <b>Dimensional</b>                               | Outside Customer Spec                         | none                              |
| <b>Edge Chip</b>                                 | W<1mm<br>L<2mm<br>d<D<br>Prog Crack | none<br>none<br>none<br>none | <b>Edge Chip</b>                                 | W<1mm<br>L<2mm<br>d<D<br>Prog Crack | none<br>none<br>none<br>none | <b>Edge Chip</b>                                 | W<1mm<br>W<1mm<br>L<2mmL<br>d<D<br>Prog Crack | none<br>1<br>none<br>none<br>none | <b>Edge Chip</b>                                 | W<1mm<br>W<1mm<br>L<2mmL<br>d<D<br>Prog Crack | none<br>5<br>none<br>none<br>none |
| <b>Eyeballs</b>                                  | >0.30mm<br>0.15-0.30mm<br><0.15mm   | none<br>6<br>no limit        | <b>Eyeballs</b>                                  | >0.30mm<br>0.15-0.30mm<br><0.15mm   | none<br>6<br>no limit        | <b>Eyeballs</b>                                  | >0.50mm<br>0.30-0.50mm<br><0.30mm             | none<br>6<br>no limit             | <b>Eyeballs</b>                                  | >1.00mm<br>0.30-1.0mm<br><0.3mm               | none<br>6<br>no limit             |
| <b>Dig</b>                                       | >0.15mm                             | none                         | <b>Dig</b>                                       | >0.15mm                             | none                         | <b>Dig</b>                                       | >0.3mm  | none                              | <b>Dig</b>                                       | >0.3mm  | none                              |
| <b>Pinholes</b>                                  | >0.15mm<br><0.15mm                  | none<br>no limit             | <b>Pinholes</b>                                  | >0.30mm<br>0.15-0.30mm<br><0.15mm   | none<br>4<br>no limit        | <b>Pinholes</b>                                  | >0.50mm<br>0.30-0.50mm<br><0.30mm             | none<br>4<br>no limit             | <b>Pinholes</b>                                  | >1.50mm<br><1.50mm<br><0.60mm                 | none<br>5<br>no limit             |
| <b>Scratches (Aluminum)</b>                      | W>0.03mm<br>L>5.00mm                | none                         | <b>Scratches (Aluminum)</b>                      | W>0.03mm<br>L>5.00mm                | none                         | <b>Scratches (Aluminum)</b>                      | W>0.10mm<br>L>10.00mm                         | none                              | <b>Scratches (Aluminum)</b>                      | W>0.10mm<br>L>25mm<br>W<.10mm<br>L<25mm       | none<br>none<br>1<br>1            |
| <b>Scratches (Glass)</b>                         | W>0.05mm                            | none                         | <b>Scratches (Glass)</b>                         | W>0.05mm                            | none                         | <b>Scratches (Glass)</b>                         | W>0.07mm                                      | none                              | <b>Scratches (Glass)</b>                         | W>0.10mm<br>L>25mm<br>W<.10mm<br>L<25mm       | none<br>none<br>1<br>1            |
| <b>Spin Defect</b>                               | in clear aperture                   | none                         | <b>Spin Defect</b>                               | in clear aperture                   | none                         | <b>Spin Defect</b>                               | >10mm   | none                              | <b>Spin Defect</b>                               | >10mm   | none                              |
| <b>Spot</b>                                      | >0.30mm<br>0.15-0.30mm<br><0.15mm   | none<br>6<br>no limit        | <b>Spot</b>                                      | >0.30mm<br>0.15-0.30mm<br><0.15mm   | none<br>6<br>no limit        | <b>Spot</b>                                      | >0.50mm<br>0.30-0.50mm<br><0.30mm             | none<br>4<br>no limit             | <b>Spot</b>                                      | >1.50mm<br><1.50mm<br><0.60mm                 | none<br>5<br>no limit             |
| <b>Stains</b>                                    | crossed<br>parallel                 | none<br>none                 | <b>Stains</b>                                    | crossed<br>parallel                 | none<br>none                 | <b>Stains</b>                                    | >10mm   | none                              | <b>Stains</b>                                    | >20mm<br><20mm                                | none                              |

\*(over any 25mm diameter area) Large product sizes may not be available for all VC specifications.



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