

[All Products](#) / [Testing and Detection](#) / [Scratch Dig and Roughness Standards](#)

## NIST Traceable Scratch Dig Standards



- Feature Requirements in Accordance with ISO 10110-7 & ISO 14997
- First Surface Pattern for System Calibration or Coating Inspection
- Second Surface Pattern for Measuring Surface Defects

# Common Specifications

## General

|       |                                                                      |
|-------|----------------------------------------------------------------------|
| Note: | Standards are for comparing optics against ISO 10110 specifications. |
|-------|----------------------------------------------------------------------|

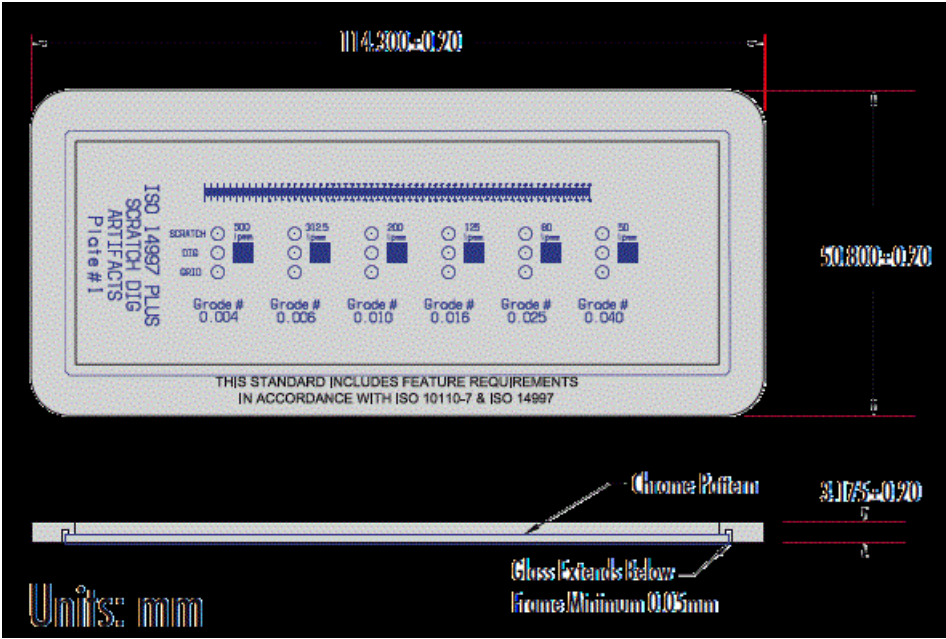
### Physical & Mechanical Properties

|                            |             |                              |                                 |
|----------------------------|-------------|------------------------------|---------------------------------|
| Scale Divisions:           | Every 0.025 |                              |                                 |
| Scale Length (mm):         | 60 ±0.002   | Width (mm):                  | 50.80                           |
| Thickness (mm):            | 1.50        | Dot Diameter Tolerance (mm): | ±0.002                          |
| Line Width Tolerance (mm): | ±0.002      | Construction:                | Black Anodized Aluminum Housing |
| Housing Tolerance (mm):    | ±0.2        | Length (mm):                 | 114.30                          |

### Optical Properties

|                  |                            |                         |           |
|------------------|----------------------------|-------------------------|-----------|
| Substrate:       | Float Glass                | Surface Flatness (P-V): | 3-4λ/inch |
| Surface Quality: | 20-10 (inside active area) | Angle of Incidence (°): | 45.00     |

Technical Information



# Products

| Dot Diameter<br>Tolerance (mm) | Line Width<br>Tolerance (mm) | Surface<br>Quality | Stock<br>Number         | Price       | Buy        |
|--------------------------------|------------------------------|--------------------|-------------------------|-------------|------------|
| ±0.002                         | ±0.002                       | 20-10              | <a href="#">#59-154</a> | A\$1,616.00 | 9 In Stock |
| ±0.002                         | ±0.002                       | 20-10              | <a href="#">#59-156</a> | A\$1,616.00 | 5 In Stock |
| ±0.002                         | ±0.002                       | 20-10              | <a href="#">#59-155</a> | A\$1,616.00 | Contact Us |



Copyright 2024, Edmund Optics Singapore Pte. Ltd, 18 Woodlands Loop #04-00, Singapore 738100  
[PRIVACY POLICY](#) [COOKIE POLICY](#) [TERMS & CONDITIONS](#)

Phone: 1-800-363-1992 :  
[www.edmundoptics.com](http://www.edmundoptics.com)