

RefMat No 

 Included in  
COMAR Database:  
Green 1 --> YES  
Blue 0 --> NO

|            |                                  |
|------------|----------------------------------|
| Category 1 | <b>Critical Dimensions</b>       |
| Category 2 | <b>Single Step</b>               |
| Category 3 | <b>Lateral (X-Y-axis, 1-dim)</b> |
| Category 4 |                                  |
| Category 5 |                                  |

 Type\_of\_RefMat: 
**Name of RM: Surface Topography References (STR)**

**Description** Surface Topography References (STR)  
combination of step height and pitch to enable three-dimensional calibration of optical interferometric microscopes and AFMs.

**Link** <http://www.vlsistandards.com/products/dimensional/streferences.asp?sid=31>

**Certified Quantities**

|                         |           |            |           |             |                      |                      |
|-------------------------|-----------|------------|-----------|-------------|----------------------|----------------------|
| <b>step height</b>      | MeanValue | <b>18</b>  | <b>nm</b> | Uncertainty | <input type="text"/> | <input type="text"/> |
| <b>step height</b>      | MeanValue | <b>44</b>  | <b>nm</b> | Uncertainty | <input type="text"/> | <input type="text"/> |
| <b>lateral distance</b> | MeanValue | <b>100</b> | <b>nm</b> | Uncertainty | <input type="text"/> | <input type="text"/> |
| <b>lateral distance</b> | MeanValue | <b>180</b> | <b>nm</b> | Uncertainty | <input type="text"/> | <input type="text"/> |
|                         | MeanValue |            | <b>nm</b> | Uncertainty | <input type="text"/> | <input type="text"/> |

|                |                       |
|----------------|-----------------------|
| Calibration of | <b>AFM</b>            |
| Calibration of | <b>SEM</b>            |
| Calibration of | <b>Interferometer</b> |
| Calibration of | <b>WLIM</b>           |
| Calibration of |                       |

|                  |                      |
|------------------|----------------------|
| Characterised by | <input type="text"/> |
| Characterised by | <input type="text"/> |
| Characterised by | <input type="text"/> |
| Characterised by | <input type="text"/> |
| Characterised by | <input type="text"/> |

**2 Provider**

 Provider No 

|                |  |             |   |
|----------------|--|-------------|---|
| Provider No    | <input type="text" value="3"/>                         | Web address | <input type="text" value="http://www.vlsistandards.com"/> |
| Provider       | <b>VLSI Standards, Inc.</b>                            |             |   |
| Contact Person | <input type="text" value="Marc Helvey, ext. 108"/>     | Country     | <input type="text" value="USA"/>                          |
| Email          | <input type="text" value="sales.support@vlsistd.com"/> | City        | <input type="text" value="San Jose"/>                     |
| Phone          | <input type="text" value="(408) 428-1800"/>            | City Code   | <input type="text" value="CA 95134-2006"/>                |
|                |  | Street + No | <input type="text" value="3087 North First Street"/>      |