

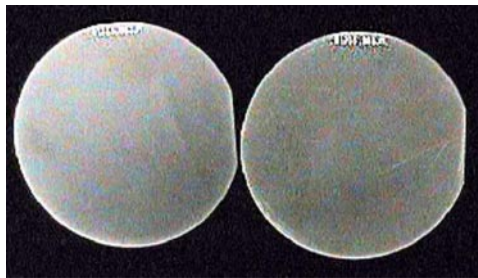
LASER APPLICATION NOTE 2230

TELESIS

ProScript[®]

Application:

Ceramic wafers used in microelectronics



Mark depth:

0.0001 to 0.005 inch (0.00254 to 0.127 millimeters)

Material:

Ceramic

Mark Type:

Alphanumeric, Logo

Cycle Time:

Varies for mark type. Typically less than 5 seconds

Laser Advantage:

Permanent high quality, with high mark speed and ease of integration of logos and serialization. The laser produces little or no micro-fracturing of this eggshell thin material.

Recommended Laser: ProScript Nd:YAG 75 Watt

Process Notes:

Using the ProScript Nd:YAG a mark is developed by ablating the ceramic. Proper power and first pulse suppression control is critical because of the possibility of micro-fracturing. Consult factory personnel before proceeding with this application. Samples must be obtained from the customer and tested.