

Through Glass Via Solutions

Applications

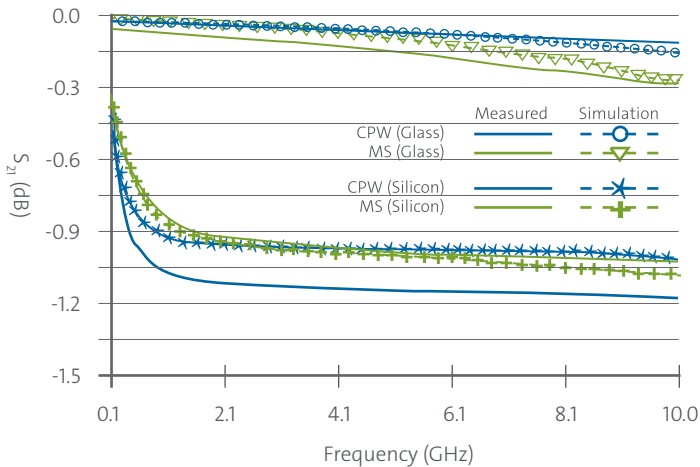
- Radio Frequency Front End (RFFE)
- Filters
- Antennae
- Switches in mobile phones
- Medical equipment
- MEMS-based devices
- Interposers

Benefits

- Ability to lower electrical loss particularly at high frequency levels
- Capability to deliver glass as thin as 100µm
- Superior surface quality enables fine line spacing
- Positional accuracy of +/- 10µm with +/- 5µm in development

Dielectric Loss

Glass vs. Silicon



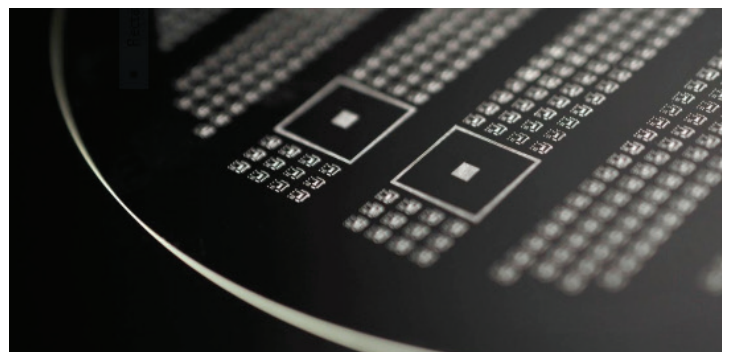
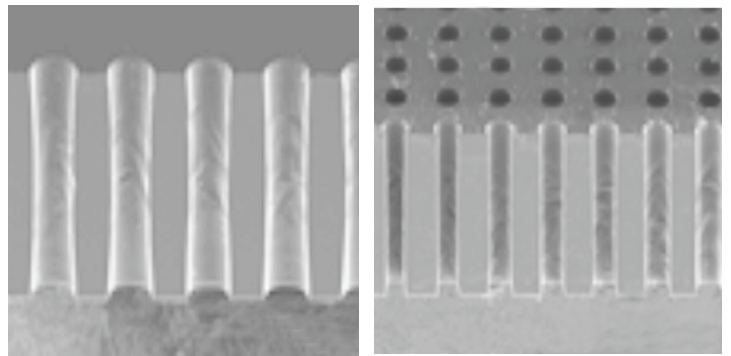
Insertion loss measurement in collaboration with ITRI

Precision Holes

Wafer Size	100/150/200/300mm; custom sizes available upon request
Panel Size	Up to 510mm x 510mm
Positional Accuracy	< +/- 10µm
Pitch	Minimum 2X holes diameter
Hole Diameter	30µm – 100µm

Precision Holes

Improved Throughput	10X in 2 years
Increased Capacity	10X by 2018
Supply Chain	A diverse array of companies are investing in glass cutting, handling and metallization capacity



Precision Glass
Solutions

CORNING

Superior Standards

Through Glass Via Solutions

Precision glass with vias, ideal for RFFE filters and advanced semiconductor packaging

Precision Glass Solutions offer industry-leading wafer and panel format glass based solutions. Our products help customers deliver increasingly demanding functionality and form factor requirements in consumer devices and Internet of Things applications. Corning has been working for nearly a decade to deliver customer-focused innovation aimed at improving attributes of glass in its various formats to make it an attractive solution for next-generation semiconductor packaging.

Regional Sales Offices

China
Corning China (Shanghai) Regional Headquarters
6F, Li Ming Building, 111 Gui Qing Road
Shanghai, 200233, China
t: 0086 21 3338 4338
f: 0086 21 3338 4300

Europe
Corning GmbH—Corning International
Abraham-Lincoln-Strasse 30
65189 Wiesbaden, Germany
t: +49 611 7366 159
f: +49 611 7366 143

Japan
Corning International K.K.
Akasaka Intercity 7th floor
1-11-44 Akasaka, Minato-ku
Tokyo, 107-0052, Japan
t: +81 3 3586 1052
f: +81 3 3587 0906

Korea
Corning Korea Company Ltd.
6th Fl., Gangnam Finance Center
152, Teheran-ro, Gangnam-gu,
Seoul, 06236, Korea
t: +82 2 796 9500
f: +82 2 796 9300

North America
Corning Incorporated
HP-CB-06
One Museum Way
Corning, NY 14831
United States
t: +607 974 9000

Singapore
Corning Singapore Holdings Pet Ltd.
1, Kim Seng Promenade
Great World City
#9-11/12 West Tower
237994, Singapore
t: +65 65729740
f: +65 67352913

Taiwan
Corning Incorporated-Taiwan
8F, No. 8, Sec.3, Minsheng E. Rd.
Zhongshan Dist., Taipei City 10480
Taiwan, R.O.C.
t: +886 2 2716 0338
f: +886 2 2516 7500

Contact us
corning.com/precision-glass-solutions
precisiongs@corning.com