Title: Thin-film double-glass components
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This paper goes beyond prior work to demonstrate ultra-miniaturized RF components such as capacitors, inductors and low pass filters, towards a more complete 3D IPAC RF module using, a) ...

This chapter summarizes the most important techniques and describes the optical, mechanical, and chemical properties that can be engineered. The way in which film composition, ...

Our dual glass modules use the same internal circuit connection as a traditional glass-backsheet module but feature heat-strengthened glass on both sides. We produce the back glass ...

Explore the different techniques used to produce glass films and how they enable technologies from advanced optics to microelectronics.

Double-side thin-film components on glass provides additional design flexibility, higher component density, and simultaneous double-side fabrication with structural balance, allowing thin ...

Table 1 summarizes the most significant examples of multilayer thin films on glass reported in the literature, highlighting both the deposition techniques and the targeted single or ...

The chapter also explores the underlying mechanisms by which these dopants modify film characteristics to enable the development of photonic devices, emphasizing practical applications ...

In this paper, we proposed a technique, ultrafast laser machining-picosecond laser welding, to fabricate an embedded thin film by placing a coating material (ZnO powders) between the ...

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