

## RF Detection and Shielding Application

Imaging Systems Technology's (IST's) Plasma-shell array technology offers the potential of advanced RF detection and shielding.

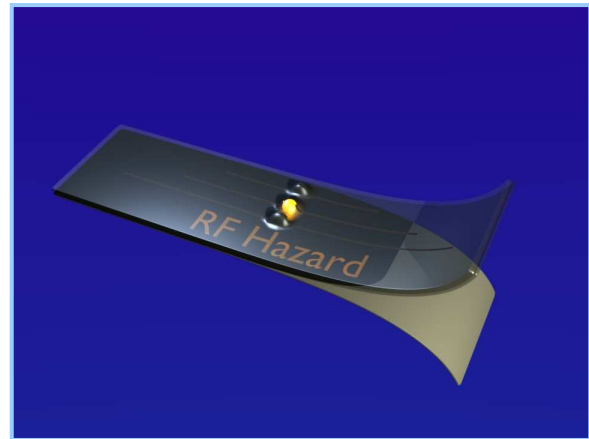
Plasma-shells are hollow structures that contain a gas. When energized the gas ionizes into a plasma. Plasma can be controlled to interact with RF energy in a number of ways. For example, the gas in the Plasma-shells will energize/ ionize in the presence of a strong RF field. Depending on a number of factors, the ionized gas can absorb or reflect RF energy.

The Plasma-shells are discrete and self contained units that can be used separately or applied to flexible substrates to form large area arrays. Plasma-shells can be applied to appliquéés or embedded in shields and glasses to serve as passive RF detection devices. Plasma-shells can be place on arrays and embedded into skins of aircraft or other systems to protect against EMP.

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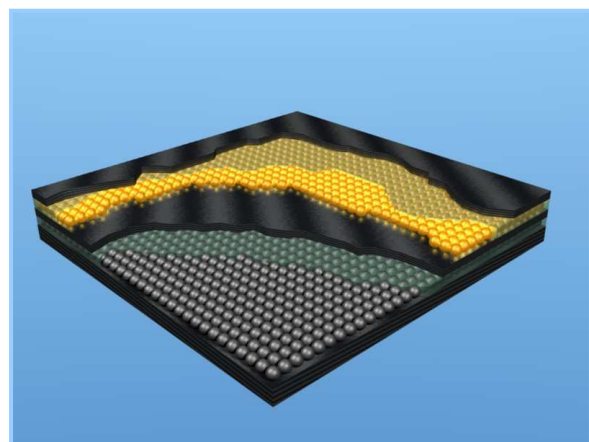
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RF Detection Appliqué



RF Detection Safety Glasses



EMP Shielding Skin