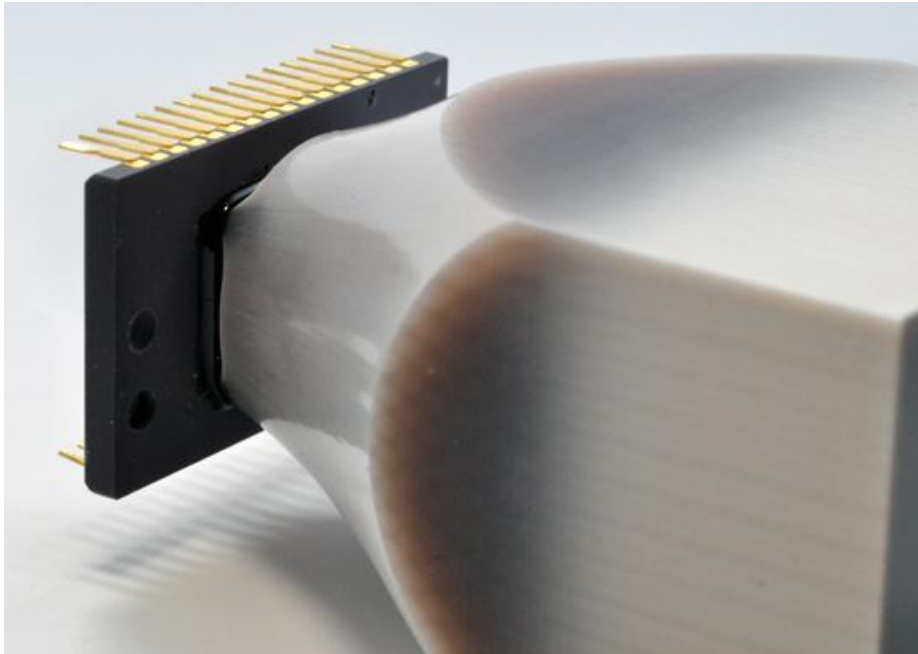


SCHOTT® Micro-Display Bonding

Components and Sub-Assemblies for defense applications



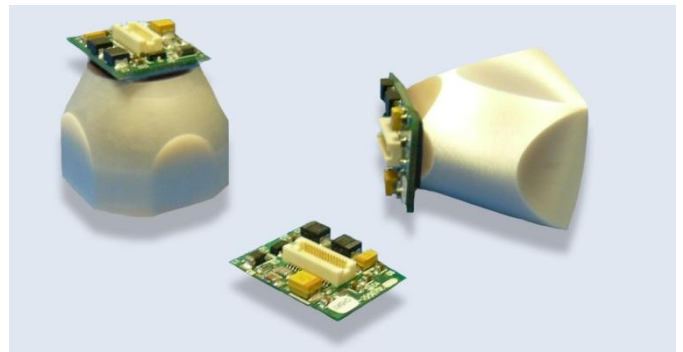
Typical Applications

- HMD (Helmet Mounted Displays)
- HUD (Heads-Up Displays)
- Night Vision Displays
- Image Intensifier (I2) CMOS Cameras
- Digital low-light Surveillance Cameras
- Image Intensifier for CMOS Cameras
- Vehicle Display
- Simulators

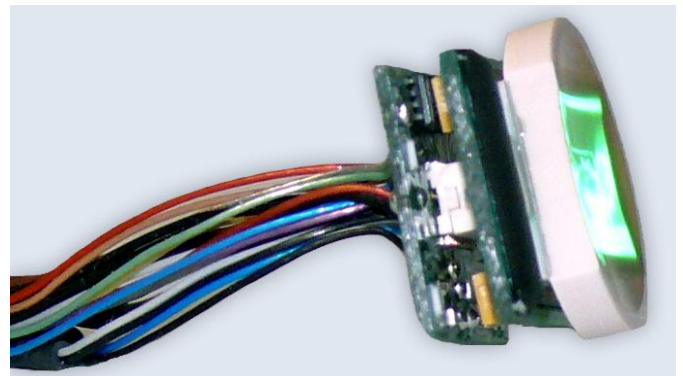
SCHOTT fiber optic taper bonded to a CCD

Performance Characteristics

- Optical bonding of Fiber Optic faceplates or tapers to Micro-OLED displays
- Provides design flexibility in order to magnify images in optical systems for near-eye or direct view applications
- Fiber Optic element size is comparable to OLED pixel size to maintain high resolution imagery
- Images are brought to the top surface through the zero-depth window characteristics
- Ruggedized assemblies for demanding environmental applications
- Customized sizes, formats and magnification ratios (typical magnification range of >1-3x)
- Glass materials provide inert and durable surface properties, for compatibility with optical coatings and bonding materials
- Tapers and faceplates can be finished with convex or concave output surfaces for coupling into custom lens assemblies



Micro-OLED courtesy of eMagin Corp. with Fiber Optic taper



SCHOTT fiber optic faceplate with a concave radius bonded to a Micro-OLED

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