Abstracts

Development of an Electrostatically Bonded Fiber Optic Connection Technique

M.B. Spitzer, P.R. Younger, F.C. Allard and L.D. Olin. "Development of an Electrostatically Bonded Fiber Optic Connection Technique." 1982 Transactions on Microwave Theory and Techniques 30.10 (Oct. 1982 [T-MTT] (Special Issue on Optical Guided Wave Technology)): 1572-1576.

This paper describes the development and fabrication of prototype multichannel fiber optic connector subassemblies. The design is based on state-of-the-art fabrication techniques which use anisotropic silicon etching and electrostatic bonding. The advantages of these techniques, as well as the manner in which they are employed in a fabrication sequence, are discussed in detail. It is shown that accurate fiber positioning in a two-dimensional array can be achieved without stringent control of fiber diameter. Results of fabrication of prototypes are presented.

❑ Return to main document.