

A 90 GHz-band monoblock type waveguide orthomode transducer

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This paper presents a 90 GHz-band waveguide orthomode transducer (OMT) which is composed of a short circuited circular common waveguide and two branching rectangular waveguides dug through a metal block. An analysis and design of the OMT are performed using full wave mode-matching techniques. A 90 GHz-band OMT fabricated with the aid of the analysis and design technique has realized excellent performances.

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