

A Compact Magic-T Using Microstop-Slotline Transitions

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DESCRIPTION

This technology is a microwave circuit arrangement for radar and communication system. The microwave circuit has a magic-T waveguide circuit element comprising two input ports and an output port, and a microstrip slotline transition circuit comprising an input/output port. A slotline couples the magic-T waveguide circuit element and the microstrip slotline transition circuit, via slotline stepped circular rings positioned inside the magic-T and the microstrip slotline transition circuit.

FEATURES AND BENEFITS

- A microwave circuit device having a magic-T that is compact and has low slotline radiation loss is obtained due to complementary properties of the microstrip and slotline.

APPLICATIONS

- Radar
- Satellites
- Communications

FOR MORE INFORMATION

If you are interested in more information or want to pursue transfer of this technology, GSC-15353-1, please contact:

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