Abstracts

Microstrip fed coplanar stripline tee junction using coupled coplanar stripline

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A microstrip fed coplanar stripline (CPS) tee junction was developed using a coupled coplanar stripline (CCPS) without bonding wire. The new tee junction equally splits the power to each output port with an insertion loss of 0.7 dB from 2 GHz to 4.15 GHz. The tee junction can serve as a microstrip to CPS transition to feed dipole antennas and other applications. A wideband CPS-to-microstrip transition was developed and used for conducting measurements. The two back-to-back transitions have an insertion loss of less than 3 dB and a return loss better than 10 dB for the frequency range from 1.3 GHz to 13.3 GHz (1:10.2).

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