Abstracts

New Coaxial-to-Stripline Transformers Using Rectangular Lines (Correspondence)

R. Levy. "New Coaxial-to-Stripline Transformers Using Rectangular Lines (Correspondence)." 1961 Transactions on Microwave Theory and Techniques 9.3 (May 1961 [T-MTT]): 273-274.

The most common form of coaxial-to-stripline transition consists of a simple inline butt joint, as described by Barrett. A typical transition between a 50-ohm high-Q triplate and a standard N-type connector is shown in Fig. 1. This gives a VSWR<1.15 at frequencies up to 7000 Mc deteriorating to 1.25 at higher frequencies up to 11,000 Mc. While these results are acceptable for many types of stripline components and assemblies, it was felt that the design of a better transition would be necessary in order both to test and to maintain the performance of high grade components (e.g., hybrids, directional couplers, and filters) and to avoid the manufacture of a special stripline standing-wave detector.

❑ Return to main document.