Abstracts

Low-Loss 360° X-Band Analog Phase Shifter

J.I. Upshur and B.D. Geller. "Low-Loss 360° X-Band Analog Phase Shifter." 1990 MTT-S International Microwave Symposium Digest 90.1 (1990 Vol. I [MWSYM]): 487-490.

A low-loss reflection-type analog phase shifter circuit is described and experimental results are presented. The circuit incorporates several design features to produce nearly 360° of phase shift at X-band while achieving an insertion loss of only 4.8 dB with ±0.5 dB of variation over all phase states. These results improve upon previously reported X-band performance by demonstrating a large phase shift range together with low attenuation and low amplitude variation with phase state.

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