# Abstracts

## A 90 dB Microstrip Switch on a Plastic Substrate

*B.R. Hallford. "A 90 dB Microstrip Switch on a Plastic Substrate." 1971 G-MTT International Microwave Symposium Digest of Technical Papers 71.1 (1971 [MWSYM]): 20-21.*

A SPDT microstrip switch has been designed on a plastic (polyolefin) substrate to switch two 10 watt cw carriers into a common load over the frequency range 1.7 to 2.3 GHz. No tuning adjustments are used over this 30% bandwidth to obtain a 90 dB minimum isolation, a 23 dB minimum return loss, and a one dB maximum insertion loss. Units now in production typically have a .6 dB insertion loss, a 26 dB return loss and isolation levels of 105 ±5 dB.

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