

# Abstracts

## Design of a Rugged Millimeter-Wave Doubler Using a Series Varactor Configuration

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*E. Boch. "Design of a Rugged Millimeter-Wave Doubler Using a Series Varactor Configuration." 1988 MTT-S International Microwave Symposium Digest 88.2 (1988 Vol. II [MWSYM]): 785-787.*

An efficient planar employing a novel has been developed. microstrip doubler to 48 GHz series varactor configuration. The nominal conversion loss of the multiplier is 8 dB when driven by 200 mW. Measured performance over -60 to +100° C shows  $\pm 1$  dB variation in the output power. Several units have been thoroughly tested under vibration with 100% survivability. This design represents a very cost effective and simple planar doubler realization application in future advanced EW systems.

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