# Abstracts

## Development of microwave/millimeter wave integral passives for multi-layer organic MCMs

*S. Manohar, Z. Jin, A. Pham, V. Krishnamurthy, D. Bates, W. Marcinkewicz, B. Schmanski, R. Saia and L. Sprinceanu. "Development of microwave/millimeter wave integral passives for multi-layer organic MCMs." 2000 MTT-S International Microwave Symposium Digest 00.3 (2000 Vol. III [MWSYM]): 1879-1882.*

We present the design and development of the high-density multi-layer organic based MCMs at microwave/millimeter wave frequencies. Ta/sub 2/N thin-film resistors have been developed and directly integrated onto Kapton and benzocyclobutene (BCB) flex that increases the packaging density and improves manufacturability. The experimental results demonstrate that the integral 50-/spl Omega/ termination on multi-layer Kapton/BCB flex achieves a return loss of less than 20-dB up to 50 GHz.

❑ Return to main document.