

Abstracts

Thin-Film Millimeter Wave Subassemblies

C. Bueb and D. Murrow. "Thin-Film Millimeter Wave Subassemblies." 1988 MTT-S International Microwave Symposium Digest 88.2 (1988 Vol. II [MWSYM]): 547-550.

Thin film millimeter subassemblies, a 35 GHz low noise downconverter and an 18 to 40 GHz dual channel downconverter are described. The hermetic portion of the 35 GHz downconverter subassembly performs four different circuit functions in a package 1.90" by 0.75" by 0.32". The 18 to 40 GHz dual-channel downconverter subassembly employs three hermetic packages interfaced with small rigid coaxial interconnections. Collectively these three hermetic packages perform five different circuit functions in a total volume of 1.08 cubic inches. These downconverter subassemblies are built out of thin-film circuits which offer reduced system size and low interconnection losses.

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