Abstracts

Multi-Slot 50-Omega Antennas for Quasi-Optical Circuits

H.S. Tsai and R.A. York. "Multi-Slot 50-Omega Antennas for Quasi-Optical Circuits." 1995 Microwave and Guided Wave Letters 5.6 (Jun. 1995 [MGWL]): 180-182.

CPW-fed multiple-slot antennas have been developed for active arrays and integrated antennas. This letter describes how the antenna can be engineered for a self-resonant 50-Omega input impedance for a various substrate parameters, and the concepts are verified using a three-slot antenna on epsilon/sub r/ = 2.2 substrate and a five-slot antenna on epsilon/sub r/ = 9.8 substrate. These antennas have been integrated directly with commercial MMIC gain block chips without any matching networks to create a quasi-optical amplifier array.

❑ Return to main document.