Abstracts

GaAs Monolithic Image Rejection Down-Converter for Point-to-Multipoint Communication Systems (1992 Vol. I [MWSYM])

G.L. Bonato and A. Boveda. "GaAs Monolithic Image Rejection Down-Converter for Point-to-Multipoint Communication Systems (1992 Vol. I [MWSYM])." 1992 MTT-S International Microwave Symposium Digest 92.1 (1992 Vol. I [MWSYM]): 93-96.

A fully integrated GaAs monolithic image rejection down-converter for L/S Band operation is presented. All the necessary subcircuits such as RF splitter, LO phase shifter, two mixers and its biasing circuits are included inside a GaAs chip, and are described. Only an IF hybrid is needed as external component. Experimental results verify the good operation of the device showing more than 20 dB of image rejection, 8 dB gain conversion, 30 dB LO to IF isolation and 20 dB LO to RF isolation throughout the operating band. The MMIC contaim 18 MESFETs and 40 passive components in a 1.2 x 3 mm^2 area.

❑ Return to main document.