Abstracts

A compact L-band LTCC mixer with high image rejection

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Low Temperature Cofired Ceramic (LTCC) Technology has been perceived as a potentially enabling integration technology for addressing the commercial viability of the size and performance requirements of high functionality Telecommunication equipment for Multi-Radio applications. In this paper a 1.7-1.8 GHz Multi-Layer Ceramic Technology Image Reject Mixer Module is presented. The Ball Grid Array (BGA) assembled LTCC Mixer Module achieves double balanced operation and an Image Rejection of greater than 67 dB. By virtue of its multilayer construction and high level passives integration the mixer occupies an active area of 15/spl times/13 mm/sup 2/. To our knowledge this is the smallest non-IC based DBM Image Reject Mixer Module in the 1-2 GHz range.

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