A MICROSTRIP PATCH RESONATOR WITH A VIA CONNECTING GROUND PLANE

Zhongyou Yan1

¹ Department of Electrical and Electronic Engineering Faculty of Engineering Yamaguchi University Ube 755-8611, Japan

Received 21 June 2001

ABSTRACT: A patch resonator with a via connecting ground plane is proposed and studied experimentally. The resonant frequency of this patch resonator is tunable up to about 34% by adjusting the via position in the center line. The lowest resonant frequency of this patch resonator has been reduced by more than 64% of the same size patch resonator