Abstracts

Frequency Doubling with Planar Ferrites and Isotropic Ferrites with Large Saturation Magnetizations

I. Bady. "Frequency Doubling with Planar Ferrites and Isotropic Ferrites with Large Saturation Magnetizations." 1961 PGMTT National Symposium Digest 61.1 (1961 [MWSYM]): 25-26.

In experiments on frequency doubling using ferrite slabs in a rectangular wave guide, planar ferrites consistently had much greater conversion efficiency than isotropic ferrites. The principle results are shown in Fig. 1. The geometry used is also shown in Fig. 1. The primary frequency was in the range of 8.5 to 9.1 kilomegacycles. The reference power level (0 db) was one watt peak power. The duty cycle was 10/sup -4/. The material properties are given in the appendix.

❑ Return to main document.