

LOW COST X-BAND MIC BARRITT DOPPLER SENSOR

S.P. Kwok, K.P. Weller
Hughes Aircraft Company
Torrance Research Center
Torrance, California 90509

Abstract

A hybrid MIC X-band Doppler sensor module using a BARRITT device in the self-mixing mode has been developed. The module is compact, low cost, and sensitive. A return loss sensitivity of -137dB/Hz was achieved with the module.