

Product Note #003

HMMC-5040 and -5032 Demo

20-32 GHz High Gain Medium Power Amp

Revision A

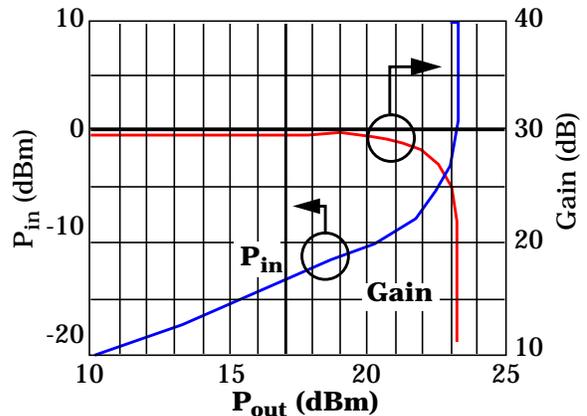
- 30 dB Gain
- 22 dBm P₋₁

September 1998

Description

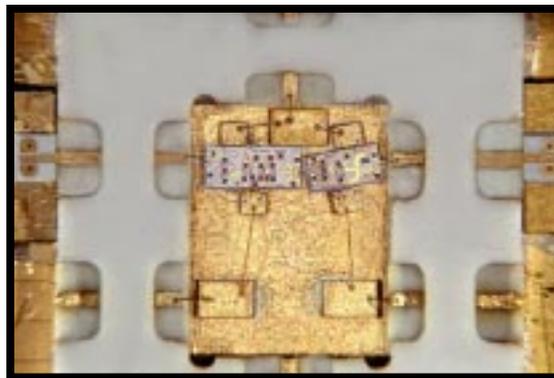
Measured data is presented showing the HMMC-5040 driving the HMMC-5032. A demonstration circuit was assembled in a Dielectric Laboratories¹ DiPak[®] package, P/N 20001, (see illustration). Note the microstrip-to-coplanar transitions which allow probing on a wafer probe station using 40 GHz coplanar probes. Calibration is at the probe tips. Presented data includes package and transition losses. Bypass capacitors are 100 pF and 800 pF (larger).

1. Dielectric Laboratories Inc.,
2777 Route 20 East
Cazenovia, NY 13035
315-655-8710



31 GHz Power and Gain

Both MMICs biased same:
V_D = 4.5V; I_D = 250 mA
2.25 W Total



HMMC-5040 Driving the HMMC-5032

Note: This product note provides supplemental information not included in the product data sheet. The purpose of supplemental data is to provide the end user with useful product-specific information to aid in the design process. The information provided does not represent or imply additional product specifications. Every attempt has been made to provide accurate data on typical products.

Notes: