# Abstracts

## Hybrid integrated fibre-amplifier-antenna module for radio applications at 60 GHz

*D. Ferling, W. Heinrich, W. Kuebart, G. Luz and F. Buchali. "Hybrid integrated fibre-amplifier-antenna module for radio applications at 60 GHz." 1999 MTT-S International Microwave Symposium Digest 99.2 (1999 Vol. II [MWSYM]): 457-461 vol.2.*

A 60 GHz transmit module comprising fibre input, high-gain MMIC amplifier, and planar antenna is presented. The novel coplanar packaging approach uses substrate-integrated subpackages, coplanar feedthroughs, and absorbers to suppress parasitic substrate modes. A special transition enables the module integration of the planar antenna. An overall gain of 55 dB and an isolation of better than 80 dB are achieved.

❑ Return to main document.