Abstracts

MMIC based SOM in optically fed phased array antennas for Ka-band communication satellites

A.S. Daryoush, K. Kamogawa, K. Horikawa, T. Tokumitsu and H. Ogawa. "MMIC based SOM in optically fed phased array antennas for Ka-band communication satellites." 1997 MTT-S International Microwave Symposium Digest 1. (1997 Vol. I [MWSYM]): 351-354.

Experimental results are presented for an optically fed MMIC based self-oscillating mixer (SOM) at 19 GHz. A frequency reference, used to subharmonically synchronize the 19 GHz VCO, and FM data signals are optically distributed to generate RF signals for Ka-band communication satellites.

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