

Abstracts

Performance of a 6 to 18 GHz Frequency Translator Utilizing GaAs MMIC 5-Bit Digital Phase Shifter (1995 Vol. I [MWSYM])

S.R. Mazumder and C.M. Isham. "Performance of a 6 to 18 GHz Frequency Translator Utilizing GaAs MMIC 5-Bit Digital Phase Shifter (1995 Vol. I [MWSYM])." 1995 MTT-S International Microwave Symposium Digest 95.1 (1995 Vol. I [MWSYM]): 5-8.

More than 22 dB of carrier and spurious suppression over 6 to 18 GHz has been achieved for a translator employing MMIC phase shifter. Trade-off of maximum allowed amplitude and phase errors versus number of bits are analyzed. For spurious levels <-29.8 dBc, the amplitude and phase errors must be $<\pm 0.83$ dB Figure and $<\pm 5.65$ degrees respectively.

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