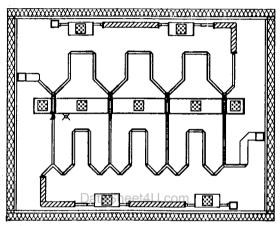
GaAs MMICs AND LINEAR ICs

A natural extension of the MSC GaAs FET product family is the design and manufacturing of complete Microwave Monolithic Integrated Circuits (MMIC's) and other analog integrated circuits.

An example of a broadband distributed MMIC amplifier is shown below. This device, soon to be announced by MSC, has a bandwidth of 2-12 GHz, and comes complete with on chip bias networks to provide ease of use in either chip or packaged formats.

Another device being developed is a broadband amplifier operating over the frequency range of 6-18 GHz. This product will include a family of matched MMIC's delivering output power levels from small signal to ½ watt levels. The first of these is destined to provide 10 dB gain and an output power of 100 mW. The typical electrical characteristics are tabled below:

DISTRIBUTED 2-12 GHz MMIC AMPLIFIER



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TYPICAL ELECTRICAL CHARACTERISTICS

Frequency Band:	2 - 12 GHz
Gain:	$8.5 \pm 0.5 \text{ dB}$
Output Power:	20 dBm
No. of Cells:	4
Noise Figure:	4 - 5 dB
Chip Size:	2.7 mm x 2.1 mm 0.1 mm
VSWR:	1.5

TYPICAL ELECTRICAL CHARACTERISTICS

Frequency Band:	6 - 18 GHz
Gain:	10 ±1 dB
Output Power:	20 dBm
Chip Size:	1.7 mm x 2.1 mm x 0.1 mm
Input VSWR:	2.5 : 1
Output VSWR:	2.5 : 1

NOTE: Contact Product Marketing for C and X band MMICs, phased array radar, or Broadband EW applications requirements.

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