GaAs Integrated Circuits from the MIMIC Program

TRW

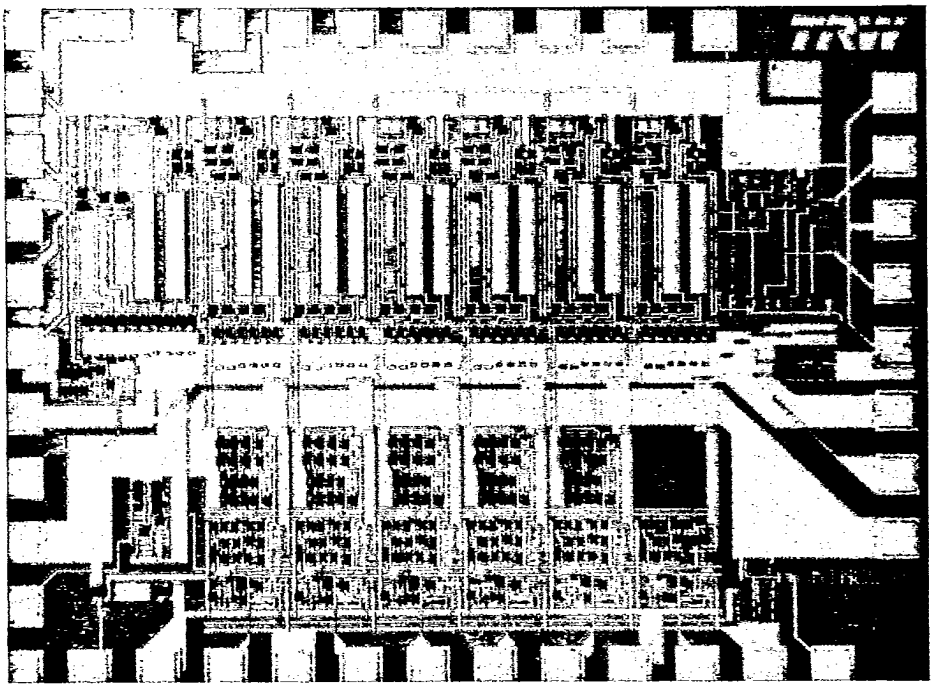
Preliminary

Switched Attenuator

Model A-H01

Microwave and millimeter-wave system designers: TRW GaAs integrated circuits become available in 1990.

Our fast-growing family of monolithic microwave/millimeter-wave integrated circuits (MMIC), is ideal for a wide range of applications in space communications, smart munitions, and avionics and electronic combat systems.



Switched Attenuator A-H01 232846-89

TRW MMIC chips offer
- ❑ High performance across a broad range of frequencies
- ❑ Greater reliability than the hybrids they replace
- ❑ Reduced size and weight, leading to smaller, lighter components
- ❑ Lower cost, achieved through volume production

Description
- ❑ Wide-control-range switched attenuator
- ❑ Six switched, differential-pair amplifiers
- ❑ TTL- compatible

Chip Data
- ❑ Technology: HBT
- ❑ Chip size: 2.15 mm x 1.15 mm
- ❑ Bias voltage: -9 V dc

Ambient Performance
- ❑ Frequency range: DC to 2 GHz
- ❑ Power consumption: 1.26 W dc
- ❑ Input/output VSWR: 2.0:1
- ❑ Gain control range: -31 dB to +31 dB
- ❑ Gain step size: 2 dB
- ❑ IP_3: >+13 dBm

Applications
- ❑ Receiver gain control

TRW MMIC Devices are marketed and distributed exclusively by:

FEI Microwave, Inc.
A SUBSIDIARY OF FREQUENCY ELECTRONICS, INC
825 Stewart Drive, Sunnyvale, CA 94086
Tel: (408) 732-0880 FAX: (408) 730-1622

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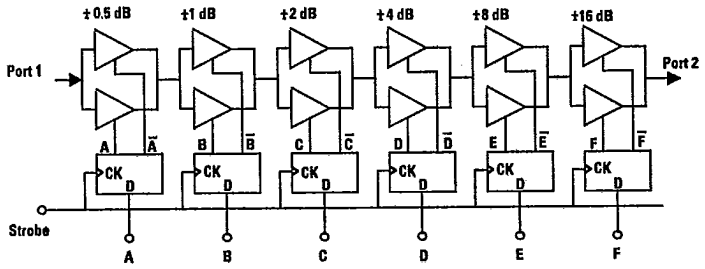
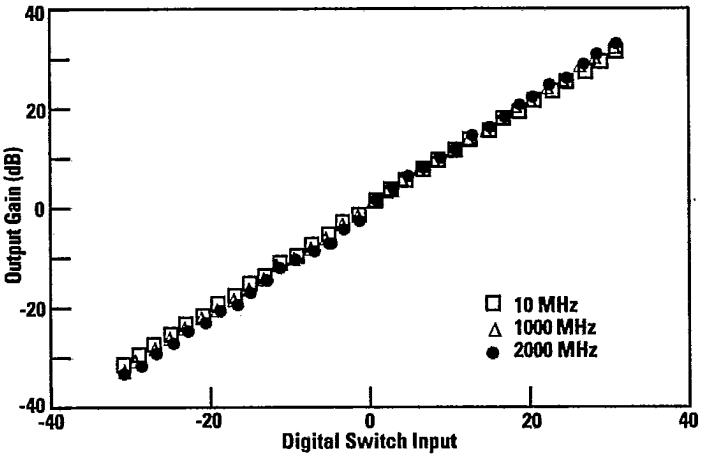
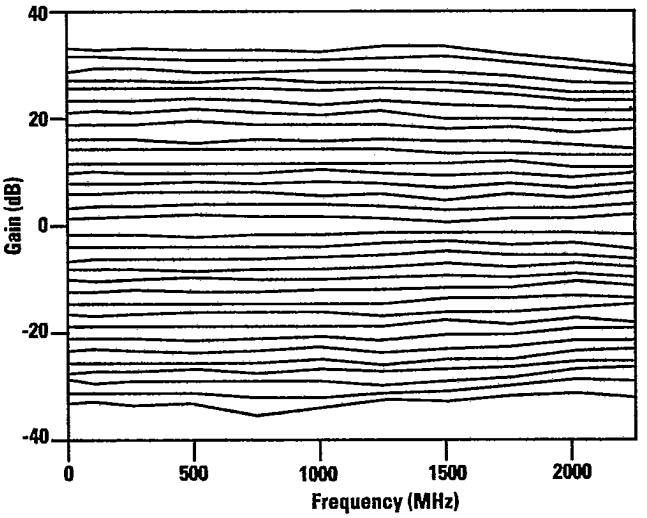


Simplified schematic of MMIC switched attenuator



Gain versus digital switch input (10, 1000, and 2000 MHz)



Gain versus frequency for all 32 gain settings

TRW

For further information please contact :

MIMIC Product Marketing
TRW Electronics & Technology Division
Electronic Systems Group
One Space Park
Redondo Beach, CA 90278
213.814.1602

TRW reserves the right to change products and specifications without notice.