

PACIFIC MONOLITHICS
GALLIUM ARSENIDE SYSTEMS

G.A.S.

MMIC LOW NOISE AMPLIFIER

MONOLITHIC LOW NOISE AMPLIFIERS

OP Amp

FEATURES

- 12 dB GAIN
- +10 dBm OUTPUT
- DIRECTLY CASCADABLE
- BUILT-IN GAIN CONTROL

259

orig

006142

6142

PCM

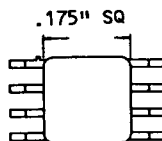
The Pacific Monolithics MMIC amplifiers are easy to use gain stages. The components offer high reliability, high efficiency and small size.

The amplifiers are stand alone gain stages for use in any microwave system, or they may be directly cascaded.

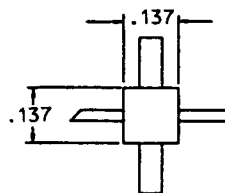
All of PM's monolithic components offer consistent phase and gain tracking from unit to unit. The low noise amplifier design may be used as building block PMcells in a custom MMIC subsystem.

MIL-STD 883 Screening Available

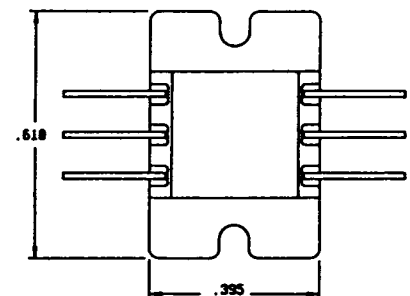
Optional SMA Package provides improved Input/Output match, Temperature Compensation and Voltage Regulation.



PACKAGE A



PACKAGE C



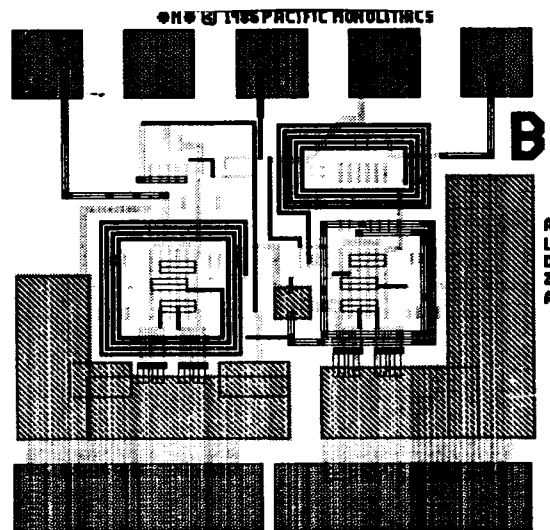
PACKAGE D

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SPECIFICATIONS

997762
PM-AM0101-D
997763
PM-AM0401-D
997764
PM-AM0501-A
997765
PM-AM0606-C

FREQ (GHz)	1.2 - 1.6	3.7 - 4.2	4.4 - 5.0	5.9 - 6.4
GAIN (dB)	12	12	12	12
GAIN FLATNESS (dB)	± 1	± 1	± 1	± 1
AGC (dB)	5	5	5	5
P_{-1} (dBm)	+10	+10	+10	+10
NOISE FIGURE (dB)	1.8	2.5	3.0	3.0
GAIN CONTROL RANGE (dB)	5	5	5	5
SECOND HARMONIC (dBc) AT P_{-1}	-15	-15	-15	-15
THIRD ORDER INTERCEPT POINT (dBm)	+18	+18	+18	+18
VSWR	2:1	2:1	2:1	2:1
CURRENT at 8V DC (mA)	17	17	17	17



TYPICAL LOW NOISE MMIC LAYOUT