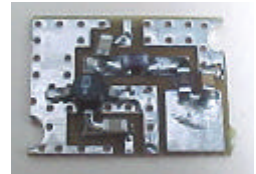


MicroAmp

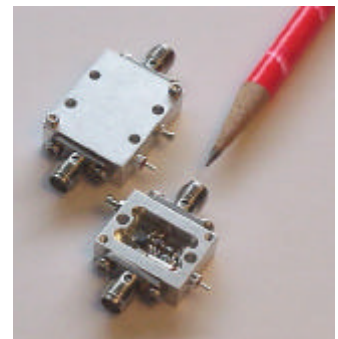
MicroAmp

Miniature MMIC Amplifier Prototyping Kits

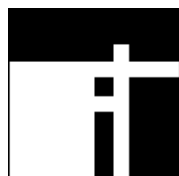
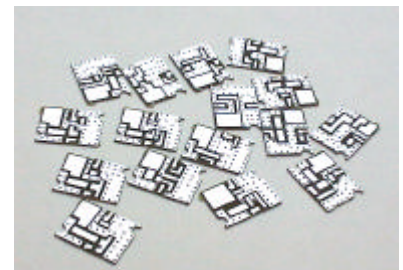
MicroAmp is the latest RF signal processing prototyping tool from Innovative Technology. MicroAmp is an ultra-miniature prototyping system compatible with a wide variety of MMIC amplifier chips. It offers a rapid method to assemble surface-mount RF amplifiers through 8 GHz using very small printed circuit boards (less than 0.2 sq. in.). Each board is designed to use standard SMT chip components (0402, 0603, and 0805 sizes) to support bias and DC blocking requirements. Simply select the proper board for the MMIC being used, and solder the components on the board



Once assembled with components, the circuit boards drop into small housings and are secured with two screws to insure excellent ground plane connection. Two SMA connectors and a feed-through bias pin are installed to form a complete circuit assembly ready to evaluate or use in any application. There are two versions of housings that will accept either one (MA-1) or two (MA-2) MicroAmp circuit boards, allowing cascaded designs to be easily realized. The single board housing measures only 1.6 x 2.0 cm (0.63" x 0.82"), while the dual board housing is 2.5 x 2.0 cm (1.01" x 0.82"). The housings come complete with SMA connectors, bias terminal, ground lug, cover, and hardware.



Currently, there are 20 MicroAmp circuit boards available to accommodate a wide range of commercially available MMIC amplifiers in 70, 85 and 145 mil diameter, 35 mil micro-X, SOT-143, SOT-363, SOT-23, SOT-89, MSOP-8, and SOIC-8 packages. These will fit most of the popular MMICs from HP, Mini-Circuits, RF MicroDevices, MACOM, Stanford Microdevices, NEC, and others. In addition, there is one circuit board designed specifically for lumped element passive networks.

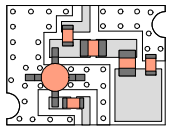


Innovative Technology

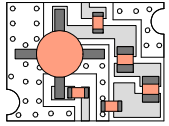
Torrance, CA

(310) 326-8831 Tel, (310) 326-8838 Fax

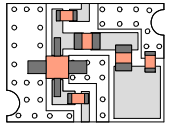
MicroAmp Circuit Board Descriptions



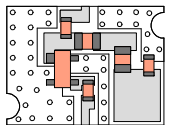
Part #: M1
Package: 85 mil dia.
Schematic: 1
 Input: Pin 1
 Output: Pin 3
 Bias: Pin 3



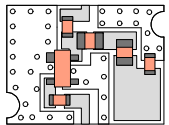
Part #: M2
Package: 145 mil dia.
Schematic: 1
 Input: Pin 1
 Output: Pin 3
 Bias: Pin 3



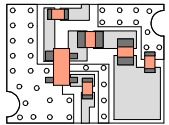
Part #: M3
Packages: 70 mil dia.
35 mil micro-X
Schematic: 1
 Input: Pin 1
 Output: Pin 3
 Bias: Pin 3



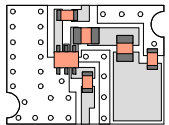
Part #: M4
Package: SOT-143
Schematic: 1
 Input: Pin 1 (3)
 Output: Pin 3 (1)
 Bias: Pin 3 (1)



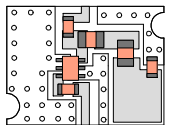
Part #: M5
Package: SOT-143
Schematic: 1
 Input: Pin 2 (4)
 Output: Pin 4 (2)
 Bias: Pin 4 (2)



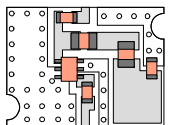
Part #: M6
Package: SOT-143
Schematic: 2
 Input: Pin 1 (3)
 Output: Pin 3 (1)
 Bias: Pin 2 (4)



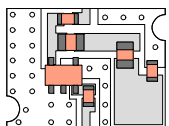
Part #: M7
Package: SOT-363
Schematic: 2
 Input: Pin 3 (6)
 Output: Pin 6 (3)
 Bias: Pin 4 (1)



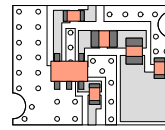
Part #: M8
Package: SOT-363
Schematic: 1
 Input: Pin 3 (6)
 Output: Pin 6 (3)
 Bias: Pin 6 (3)



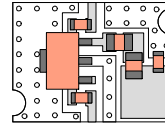
Part #: M9
Package: SOT-363
Schematic: 1
 Input: Pin 1 (4)
 Output: Pin 4 (1)
 Bias: Pin 4 (1)



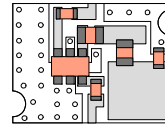
Part #: M10
Package: SOT-23
Schematic: 1
 Input: Pin 3
 Output: Pin 5
 Bias: Pin 5



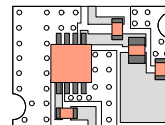
Part #: M11
Package: SOT-23
Schematic: 2
 Input: Pin 3
 Output: Pin 5
 Bias: Pin 4



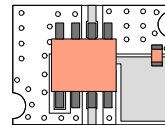
Part #: M12
Package: SOT-89
Schematic: 1
 Input: Pin 1
 Output: Pin 3
 Bias: Pin 3



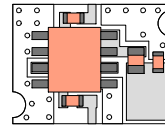
Part #: M13
Packages: SOT-23
Schematic: 2
 Input: Pin 3 (6)
 Output: Pin 6 (3)
 Bias: Pin 4 (1)



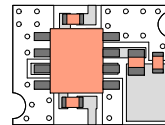
Part #: M14
Package: MSOP-8
Schematic: 1
 Input: Pin 1 (5)
 Output: Pin 5 (1)
 Bias: Pin 5 (1)



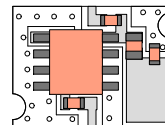
Part #: M15
Package: SOIC-8
Schematic: 3
 Input: Pin 3
 Output: Pin 6
 Bias: Pin 1



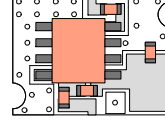
Part #: M16
Package: SOIC-8
Schematic: 2
 Input: Pin 3
 Output: Pin 6
 Bias: Pins 7,8



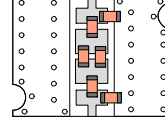
Part #: M17
Package: SOIC-8
Schematic: 2
 Input: Pin 3
 Output: Pin 6
 Bias: Pin 7



Part #: M18
Package: SOIC-8
Schematic: 1
 Input: Pin 1
 Output: Pin 8
 Bias: Pin 8

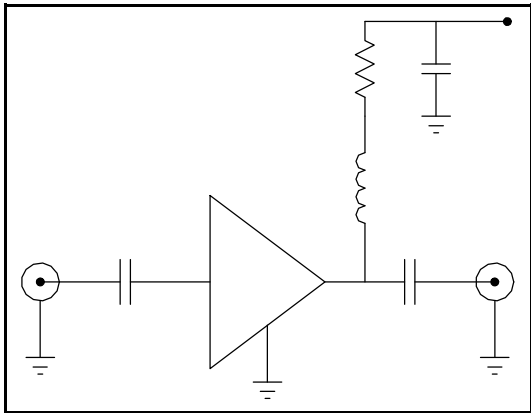


Part #: M19
Package: SOIC-8
Schematic: 1
 Input: Pin 4
 Output: Pin 8
 Bias: Pins 1, 8

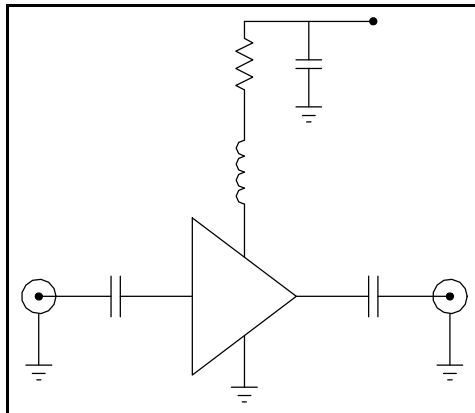


Part #: M20
Package: 0402, 0603, 0805 chips
 Use for lumped element circuits.

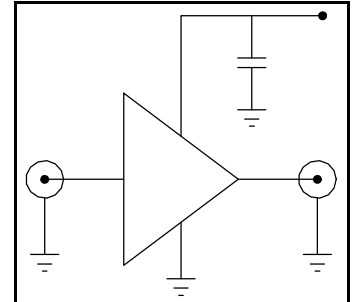
MicroAmp Bias Schematics



Schematic 1

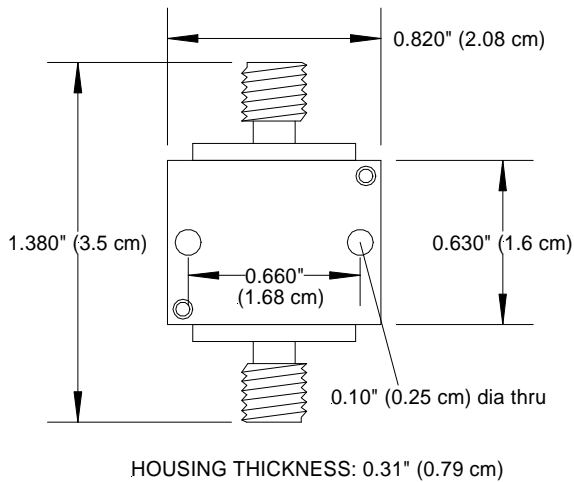


Schematic 2



Schematic 3

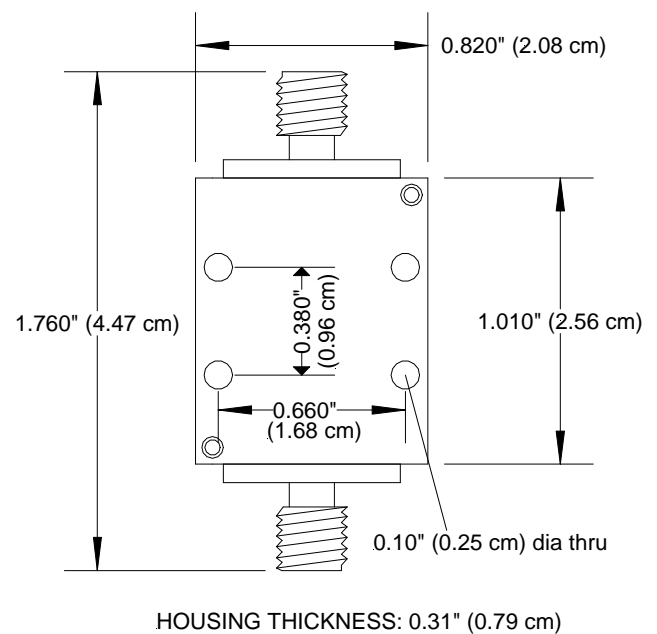
MicroAmp Housing Dimensions



MA-1 Housing

The MA-1 housing comes complete with the following:

- Housing body
- Cover
- 2 SMA connectors
- SMA connector mounting screws
- MicroAmp circuit board mounting screws
- Cover screws
- 1 ground terminal
- 1 bias pin



MA-2 Housing

The MA-2 housing comes complete with the following:

- Housing body
- Cover
- 2 SMA connectors
- SMA connector mounting screws
- MicroAmp circuit board mounting screws
- Cover screws
- 1 ground terminal
- 2 bias pins