

## MAIF6020-80

### High Performance 60MHz High Dynamic Range Log Amplifier

#### Features:

- Available from 5 to 500 MHz in various configurations
- Custom units – small to medium quantities
- IF output available
- Matched units available

\*contact Mid-Atlantic RF for more details\*

#### Electrical Specifications:

|                           |                                        |
|---------------------------|----------------------------------------|
| <b>Center Frequency:</b>  | 60 MHz                                 |
| <b>Bandwidth:</b>         | 10 MHz                                 |
| <b>Linearity:</b>         | +/- 0.75 dB<br>1.0 dB over temperature |
| <b>Input Impedance:</b>   | 50Ω                                    |
| <b>Output Impedance:</b>  | 93Ω                                    |
| <b>VSWR:</b>              | 1.5:1                                  |
| <b>Operating Voltage:</b> | +11 to +18VDC                          |
| <b>Slope:</b>             | 22.5 mV/dB                             |
| <b>Slope Variation:</b>   | 2.0:1 max                              |
| <b>Dynamic Range:</b>     | -80 to 0 dBm (input)                   |
| <b>Bandwidth:</b>         | 10 MHz typical                         |
| <b>Pulse Performance</b>  |                                        |
| <b>Rise Time:</b>         | 80ns typical                           |
| <b>Fall Time:</b>         | 150ns typical                          |

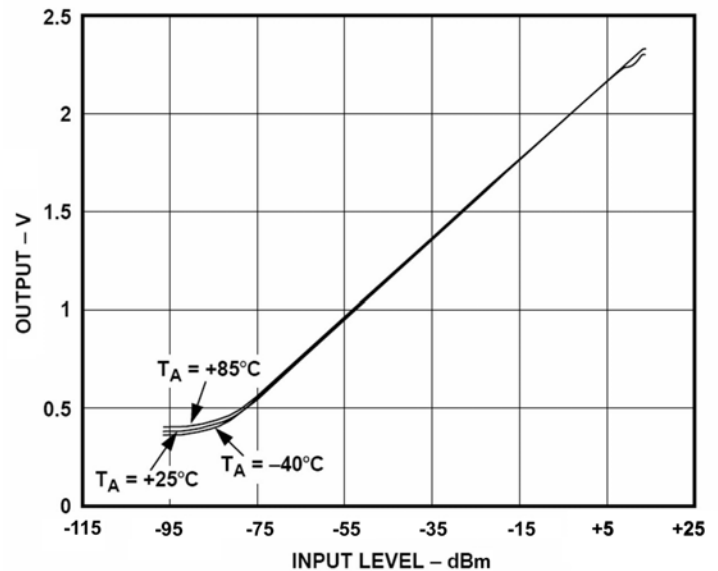
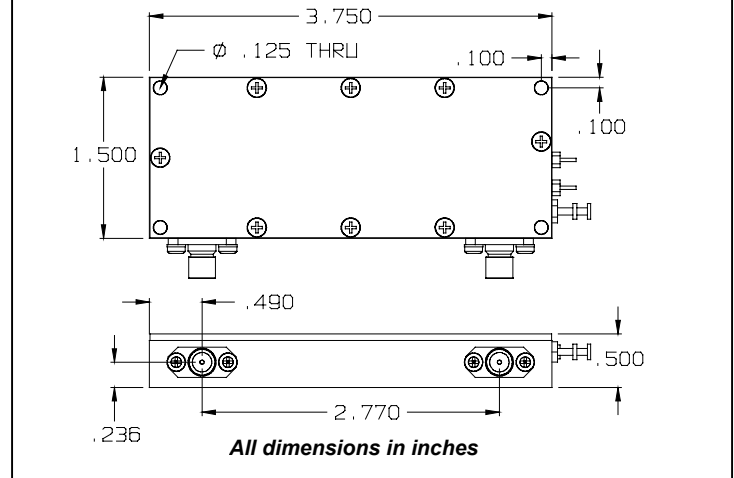
#### Mechanical Specifications:

|                    |                             |
|--------------------|-----------------------------|
| <b>Dimensions:</b> | 3.75" x 1.50" x 0.50"       |
| <b>Connectors:</b> | SMA (f)                     |
| <b>Mounting:</b>   | ∅0.125 thru holes, 4 places |

#### Environmental Specifications:

|                               |               |
|-------------------------------|---------------|
| <b>Operating Temperature:</b> | -40° to +85°C |
|-------------------------------|---------------|

#### Outline Drawing



Typical Performance