



# A3010

## 10 kHz to 2500 MHz TO-8 CASCADABLE AMPLIFIER

- ◆ GAIN: 9.5 dB (TYP.)
- ◆ DC COUPLED\*
- ◆ +/- 1 dB GAIN FLATNESS
- ◆ HIGH DRIVER OUTPUT LEVEL: +18 dBm
- ◆ INPUT/OUTPUT MATCH: < 2.0:1 (TYP.)

### Specifications\*\*

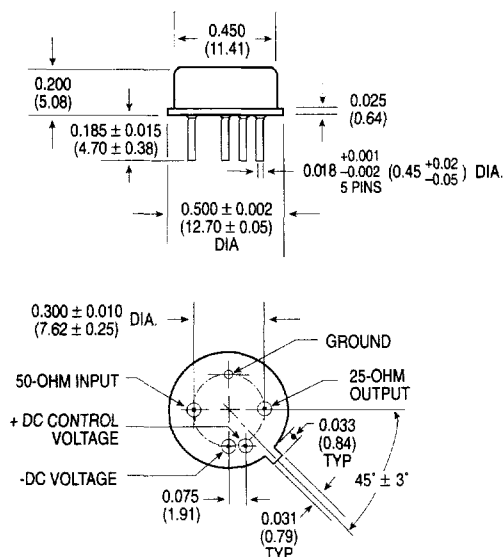
| Characteristics                            | Typical    | Guaranteed<br>+25°C to +85°C |
|--------------------------------------------|------------|------------------------------|
| Frequency Range, MHz                       | 0.010-2500 | 0.010-2500                   |
| Small Signal Gain, dB (Min.)               | 9.5        | 8.0                          |
| Gain Flatness, dB (Max.)                   | +/- 0.9    | +/- 1.2                      |
| Output Power @ 1 dB Compression, dB (Min.) | +19        | +17                          |
| Input VSWR                                 | 1.9:1      | 2.3:1                        |
| Output VSWR                                | 2.0:1      | 2.3:1                        |
| DC voltage – positive                      | 12 V       | 12 V                         |
| Current – positive (Max.)                  | 140 mA     | 155 mA                       |
| DC voltage – negative                      | -5.2 V     | -5.2 V                       |
| Current – negative (Max.)                  | 15 mA      | 20 mA                        |

\* Input and output blocking capacitors required – 0.36 µf nominal.

\*\* Measured in a 50Ω system at +12 VDC, -5.2 VDC, unless otherwise noted.

### Outline Drawing

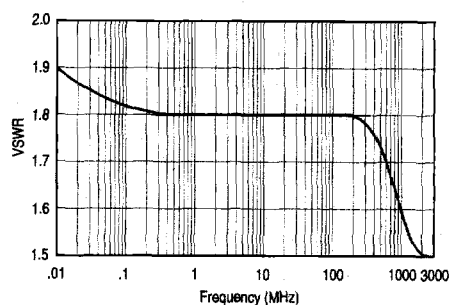
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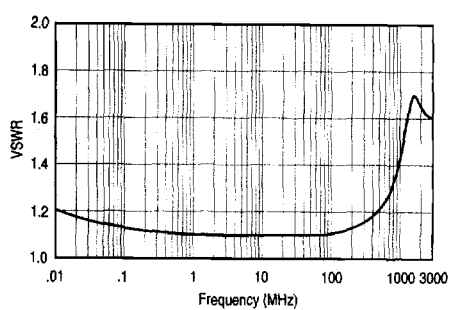
## Typical Performance at 25°C

WJ-A3010

### Input VSWR vs. Frequency



### Output VSWR vs. Frequency



### Gain vs. Frequency

