

# ASC806C

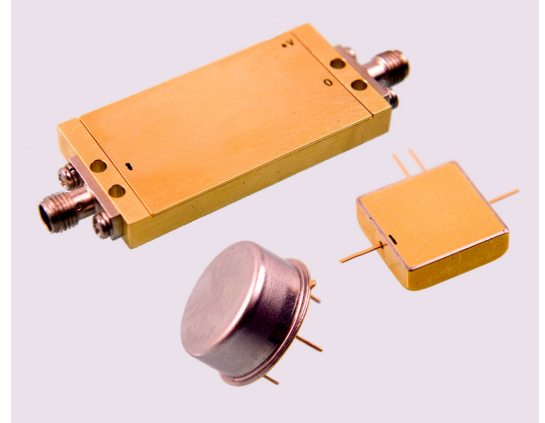
## Features: (typical values)

- Wide Band ..... 10-600 MHz.
- Noise Figure ..... 3.0 dB.
- High Gain ..... 42 dB.

## Maximum Ratings

Storage Temperature ..... -62°C to +125°C  
 DC Voltage ..... +17 volts  
 RF Input Power ..... +7.0 dBm.  
 Case Temperature ..... +100°C

## 10-600 MHz Cascadable Amplifier



Specifications (Referenced to 50 ohms)

| Parameter                                    | Typical Conditions | Min Value | Max Value | Units |
|--|--------------------|-----------|-----------|-------|
| Frequency                                    |                    | 10        | 600       | MHz.  |
| Gain   | 42                 | 40        |           | dB.   |
| Gain Flatness                                | ±0.5               |           | ±1.0      | dB.   |
| Gain Var. over temp                          | 0.6                |           |           | ΔdB.  |
| Pout @ 1dB Comp                              | +28                | +26       |           | dBm.  |
| Noise Figure                                 | 3.0                |           | 4.5       | dB.   |
| Reverse Isolation                            | 60                 |           |           | dB.   |
| IP <sub>3</sub> /IP <sub>2</sub> (two-tone)* | 45/70              | 42/65     |           | dBm.  |
| HIP2 (2 <sup>nd</sup> harm.)                 | 75                 |           |           | dBm.  |
| VSWR In/Out                                  | 1.3:1              |           | 1.6:1     |       |
| Supply Required                              | +15/450            |           | +15/550   | v/mA. |

Min. and max. values are from -55°C to +85°C

\*IP<sub>3</sub> and IP<sub>2</sub> are in band output intercept points

