



# Instrumentation Amplifiers

QAI



## Characteristics

- ◆ Fully packaged in enclosure
- ◆ Operate on AC power
- ◆ Offered over 2-110 GHz range
- ◆ Custom Performance Available
- ◆ Wide Range of Options



## Product Description

QuinStar Technology's series QAI Instrumentation amplifiers are fully packaged high performance amplifiers for test and instrumentation applications. These amplifiers are packaged in rugged equipment enclosure with all power supplies and control circuits included to allow AC power operation. They employ QuinStar's wide range of amplifier products and incorporate optional features to enhance their user-friendliness. Standard products include power amplifiers, general-purpose amplifiers and broadband driver amplifiers for popular applications in frequency range covering 2 to 110 GHz. Custom products can be configured and readily produced to meet virtually any performance and operational requirements.

All products include appropriate displays, indicators, controls and cooling arrangements for ease of operation with high reliability. A wide range of optional features is also available for these amplifiers. See page 39 for details of these optional features. Enclosures may be standard rack-mountable or custom designs depending on application or customer requirements. If desired, models that operate on DC power supplies (12 or 24 V) can be supplied. These amplifiers are well suited for test and measurement, laboratory use, TWT replacement or for dedicated instrumentation sources.

## Specifications

Frequency Range	Performance Characteristics
2-8 GHz	10 Watts, 40 dB nominal gain, +/- 1.5 dB gain flatness
6-18 GHz	10 Watts, 35 dB min. gain, +/- 2 dB gain flatness
18-26.5 GHz	5 Watts, 40 dB gain
26.5-40 GHz	2 Watt, 30 dB min. gain, +/-3 dB gain flatness
2-50 GHz	18 dBm typical power, 37 dB min. gain
33-50 GHz	17 dBm, 48 dB gain
50-75 GHz	16 dBm, 30 dB typical gain, +/- 3 dB gain flatness
75-110 GHz	13 dBm, 25 dB nominal gain



### Ordering Information

