

ARTISAN®
TECHNOLOGY GROUP

Your **definitive** source for quality pre-owned equipment.

Artisan Technology Group
(217) 352-9330 | sales@artisantg.com | artisantg.com

Full-service, independent repair center
with experienced engineers and technicians on staff.

We buy your excess, underutilized, and idle equipment
along with credit for buybacks and trade-ins.

Custom engineering
so your equipment works exactly as you specify.

- Critical and expedited services
- In stock / Ready-to-ship
- Leasing / Rentals / Demos
- ITAR-certified secure asset solutions

Expert team | Trust guarantee | 100% satisfaction

All trademarks, brand names, and brands appearing herein are the property of their respective owners.

Visit our website - *Click HERE*

TELEDYNE
MICROWAVE SOLUTIONS
Everywhereyoulook™

Rev. 2/16

A4P5130

20 TO 500 MHz SMA CASCADED AMPLIFIER

Typical Values	***A4P5130***
High Gain	***39.0 dB***
Low Noise Figure	***2.3 dB***
High Output Level	***1 Watt***
High Third Order I.P.	***+42 dBm***
High Reverse Isolation	***55 dB***

High Performance Thin Film
Power Pack SMA Package

SPECIFICATIONS*

Parameter	Typical	Guaranteed 0 to 50 °C	Guaranteed -55 to +85 °C
Frequency (Min.)	**10-600 MHz**	**20-500 MHz**	**20-500 MHz**
Small Signal Gain (Min.)	39.0 dB	37.0 dB	35.0 dB
Gain Flatness (Max.)	±0.8 dB	±1.0 dB	±1.2 dB
Noise Figure (Max.)	2.3 dB	3.2 dB	3.7 dB
SWR (Max.) Input/Output	1.7:1	2.0/2.5:1	2.0/2.7:1
Power Output (Min.) @ 1dB comp. 30-500 MHz	+30.0 dBm†	+29.0 dBm†	+28.0 dBm†
Reverse Isolation	55 dB	—	—
DC Current (Max.)	522 mA	540 mA	577 mA

* Measured in a 50-ohm system at +15 Vdc unless otherwise specified.
† 1.0 dB lower below 30 mHz.

INTERMODULATION PERFORMANCE

Typical @ 25 °C	***A4P5130***
Second Order Harmonic Intercept Point	+64 dBm
Second Order Two Tone Intercept Point	+58 dBm
Third Order Two Tone Intercept Point	+42 dBm

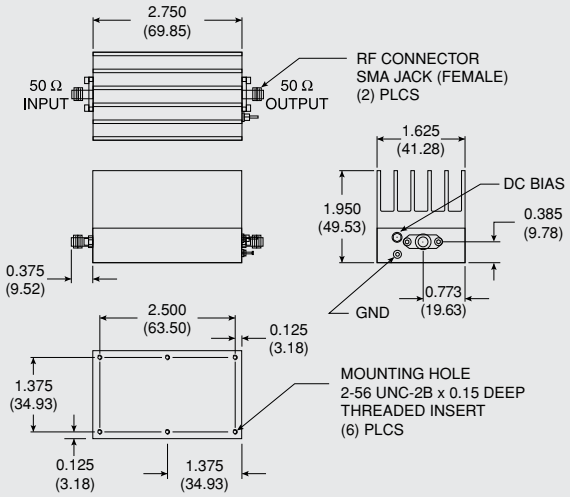
ABSOLUTE MAXIMUM RATINGS

Storage Temperature	-62 to +125 °C
Maximum Case Temperature	+125 °C
Maximum DC Voltage	+19 Volts
Maximum Continuous RF Input Power	+13 dBm
Maximum Short Term Input Power (1 Minute Max.)	100 Milliwatts
Maximum Peak Power (3 μsec Max.)	0.5 Watt
Burn-in Temperature	+105 °C
Thermal Resistance[1] (θjc)	+21 °C/Watt
Junction Temperature Rise Above Case (Tjc)	+40.5 °C

[1] Thermal resistance is based on total power dissipation.

A4P5130

Power Pack SMA Case
(three- and four-stage)



DIMENSIONS ARE IN INCHES [MILLIMETERS]

Artisan Technology Group is an independent supplier of quality pre-owned equipment

Gold-standard solutions

Extend the life of your critical industrial, commercial, and military systems with our superior service and support.

We buy equipment

Planning to upgrade your current equipment? Have surplus equipment taking up shelf space? We'll give it a new home.

Learn more!

Visit us at **artisantg.com** for more info on price quotes, drivers, technical specifications, manuals, and documentation.

Artisan Scientific Corporation dba Artisan Technology Group is not an affiliate, representative, or authorized distributor for any manufacturer listed herein.

We're here to make your life easier. How can we help you today?

(217) 352-9330 | sales@artisantg.com | artisantg.com

ARTISAN® TECHNOLOGY GROUP