



NEW***DEM Part Number 7025PA*****NEW**
25 Watts, 420-450MHz Linear Amplifier

Specifications

Frequency range:	420 to 450 MHz.
Power Out (linear):	25 Watts minimum
Power Out (saturated):	>40 Watts typical
Power Input for rated power out:	10 mW typical, 50 mW saturated Optional input attenuator available.
Power requirements:	13.8 volts dc @ 8.0 amperes MAX.
Connectors:	Type-N female
Size with connectors:	5.5" L x 5.5" W x 4.2" H
Active device: Hybrid	SAU83L

The 7025PA is a broadband linear power amplifier covering the entire 70 CM amateur band. It has a linear power output of 25 Watts minimum with 10 mW of drive or a saturated output of over 40 Watts. This design may be used for AM ATV at the designed output level based on picture quality. Type "N" connectors are used on both RF input and output. There is a common DC connector with the + DC and ground supply voltage, PTT-L, and a RF power output monitor. The 7025PA requires well-regulated 13.8 VDC at 10A for full power output. Keying is done by connecting the PTT-L circuit to ground (activates the Bias circuit). The RF power monitor supplies a relative DC voltage to RF power.



This amplifier design utilizes the Hitachi SAU83L MOSFET hybrid power module. All regulated voltages and biasing that are required for proper operation are self-contained.

Caution: Do not exceed the specified drive level of 100 mW RF. This is the maximum level of the amplifier in its stock form. The amplifier may be fitted with internal attenuators to accommodate any higher drive level. Be sure to read your amplifiers data sheet for its drive level configuration.

Do not exceed 15 volts on the DC line. When in operation, utilize over voltage protection and any voltage sensing circuits that the power supply in use may offer. A voltage sense wire has been included in the pre-wired DC Power connector. With high current drain, voltage sag will inhibit the amplifiers output power performance and with lower quality power supplies, the voltage may soar beyond the amplifiers specified limits when un-keyed.

