

Crescend RTK-450 Amplifier

Key Features

- Gain Control Loop

Specifications

- Frequency Range: 450-470 MHz
- Gain 11 dB (nominal)
- Input power 0.4-2.0 W (nominal), 3 W (maximum)
- Spurious & harmonics meets FCC requirements
- Input/output Impedance: 50 ohms
- Input/output Connector: type "N" female
- Operating Voltage: +13.8 VDC (nominal), 17.5 VDC (maximum)
- DC current consumption: 8 Amperes (maximum)
- DC Connector: terminal block, screws # 6-32
- Load VSWR protection; overheat protection
- Indicator LEDs: DC on, low output, high VSWR, high temp
- Control/Monitoring connectors: power setup, common alarm signal
- Cooling Method: fan forced air over heat sink; fan is on constantly
- Operating Temp Range: -30°C to +60°C
- Storage and Transport Temp: -40°C to +70°C
- Humidity: 80% at +40°C (non-condensing)
- Altitude: 10,000 ft. maximum

Dimensions and Weight

- Dimensions: 7"H x 6"D x 19" W
- Weight: 10 lbs.
- 19" Rack Mount



Description

The Crescend RTK-450 power amplifier is designed to work with the John Deere UHF RTK system. With 11 dB of gain, the amplifier boosts the power level of the standard RTK system to extend range and compensate for trees, foliage and other objects. LED monitoring is provided as well as I/O connections. These may be used to remotely monitor PA status as well as remotely place PA in active or bypass mode. Should the PA experience a DC power loss or go into thermal protective shutdown, the PA will automatically go into bypass mode, keeping the site on the air until it is convenient to troubleshoot.

Rev B

These are preliminary specifications and are subject to change. Patents applied for.



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