High Power Amplifiers

LeadersRF provides versatile amplifiers in operating frequencies up to 6GHz and it is covering the application from FM/AM to the telecommunications networks and radar. GaN, GaAs FET, MOSFET and LDMOS are used according to the specific customer's needs and we design amplifiers focusing on efficiency and linearity up to 200W. We offer class ‘A’, ‘AB’, ‘C’ and high linearity design and our amplifiers have various functions such as ALC, AMP ON/OFF, output power / back power detection, gain adjustable and overpower shutdown. LeadersRF’s amplifier solution has high reliability and the various control modes such as RS232 and 485 are available. The design and manufacturing processes of LeadersRF are subject to rigorous quality assurance procedures which differentiate our products from those of competitors. Our products are cost-effective solutions and we guarantee the quality for 2 years and comply with RoHS Compliant.

Feature

- Operating Frequency range from 10MHz up to 6GHz
- Design for output power up to 200W
- GaN, GaAs FET, MOSFET and LDMOS
- Class ‘A’, ‘AB’, ‘C’ and High Linearity Design
- High Temp. Stability and Efficiency
- Cost-Effective Solution
- Several Standard Options available as well as Custom Design
Fiber Optic Transceiver

LeadersRF provides various fiber optic products including fiber optic transceiver and components for this module such as WDM, coupler, laser diode and photo diode. The fiber optic transceiver consists of transmitting part (Donor unit) that converts RF signal into optic signal and receiving part (Remote unit) that converts optic signal into RF signal. The donor receives RF signal from base station and this signal is combined with modem signal (29 TX) in the donor unit. This signal comes to LD to be converted from RF to optic signal and this converted signal comes to PD to divide RF and Modem signals in remote unit. The modem signal (29.9MHz) is transferred to the modem (29 RX) for TTL communications (Interface: D-9PIN) in remote unit and RF signal goes out by TX out port for DUT. TX and RX paths have different wavelength, but it could be transmit signals via single optic cable using WDM (Wavelength Division Multiplexer). WDM has broadband wavelength (WDM: 1310±40nm & 1550±40nm) and WDM in Donor unit can cover all signals from different remote units. The usage for fiber optic modules are for fiber optic communications system to solve radio shadow area. Star (1:1) and Cascade configuration (1:N) up to 5Wave are available according to customer’s specific requests and it is possible to design Analog and Digital fiber optic modules. Transmission distance of fiber optic cable is available up to 20Km with single fiber, but the design applying EDFA is possible up to 100Km. Our products are cost-effective solutions and we guarantee the quality for 2 years and comply with RoHS Compliant.

Feature

- Frequency Range from 10MHz to 6GHz Available
- Low Noise Floor and Back Reflection
- High Sensitivity and Dynamic Range
- LD/PD Alarm Circuit
- Analog and Digital Fiber Optic Modules
- FC/APC, SC/APC Fiber Optic Connectors
- Data Rate 19.2Kbps
- Suitable for Commercial and Military Applications