

## ReceiveChannel

### Typical Performance

All Cellular Bands	
Gain	12.0 dB
Return Loss	15 dB
OIP3	+25 dBm

Cellular Bands	NF (typical)
AB-Band (824 - 849 MHz, Rx)	1.0 dB

## Mechanical/Environmental

Characteristics	Typical Performance
Power	DC (24 or 48 V) input – 30 Watts
Weight	AB-Band – 30 lbs per sector
Size	19"W x 18"D x 9"H
Tx and Rx Antenna Connectors	Type N-female, 50 Ohm
Ambient Temperature	0° C to +50° C
Enclosure	Modular 19" rack mount chassis
Mounting	19" or 23" rack, cable tray mount also available
Lightning Protection	Shorted stubs on antenna and BTS ports Internal protection for alarm and DC paths
Reliability Features	Separate power supply and control electronics for each sector provide redundancy and ensure continued operation

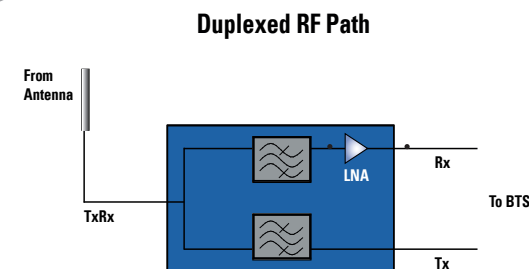
### Features & Benefits:

- > Receiver front-end solution in a single-sectored, modular enclosure featuring integrated duplexing
- > Increased sensitivity from a convenient ground-based package
- > Reduced dropped and blocked calls
- > Increased capacity, improved coverage, and higher data throughput
- > Higher reliability and lower noise figure than tower mount amplifiers
- > Much lower transmit insertion loss than tower mount amplifiers

## TransmitChannel

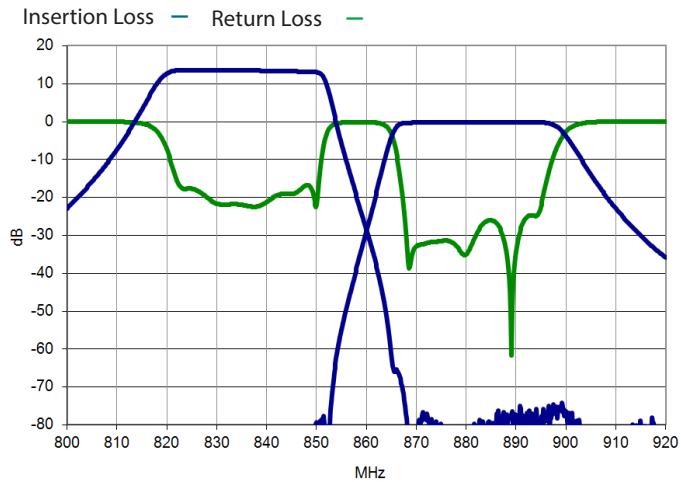
Characteristics	Typical Performance
Tx Insertion Loss	0.3 dB
Rx Isolation	> 90 dB
Return Loss	24 dB
Tx Power Handling	600 Watts CW / 10 kW peak pulse

## Architecture



Rejection

AB-Band RF Performance



AmpLink™ 850ABi  
Risk-free sensitivity

