

## Passband Frequency

### A-Band Specifications

Receive	824 – 846.5 MHz
Transmit	869 – 891.5 MHz
VSWR	1.5:1

## Insertion Loss

Receive	0.3 dB*
Transmit	0.3 dB*

*\*typical performance*

## Rejection/Isolation<sup>1</sup>

Antenna to Receive DC – 700 MHz	90 dB*
Antenna to Receive 869 – 2250 MHz	90 dB*
Transmit to Antenna DC – 846.5 MHz	90 dB*
Transmit to Antenna 1080 – 2020 MHz	90 dB*
Transmit to Receive (measured over Rx and Tx passbands)	90 dB*

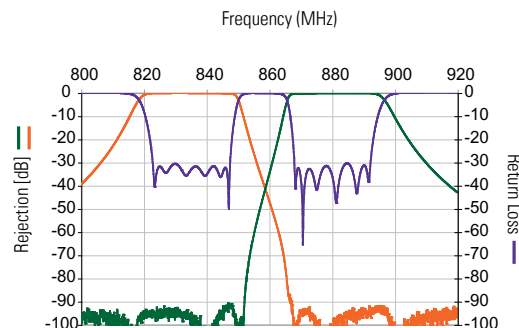
*\*typical performance*

## Mechanical/Environmental

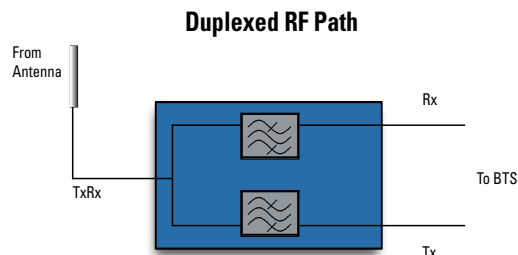
Weight	11 lbs
Size	16.3"W x 4.9"D x 2.8"H (excluding connectors, face plate and tuning screws)
Power Handling	CW 1200 W Peak 10 kW
Operating Temperature	-30 to +60° C
Storage Temperature	-55 to +125° C
Connectors	7/16 DIN-female 50 ohm (BNC-female sample port)
Sample Port (over Rx and Tx passbands)	-50 dB ±3 dB non-directional

## Performance

A-Band Antenna to Receive Port and Antenna to Transmit Port Performance<sup>1</sup>



## Architecture



### Best-in-Class Duplexer Performance.

STI's 850 MHz Duplexers provide antenna sharing without compromise. Deploy in conjunction with STI's SuperLink<sup>®</sup> 850 to create the ultimate BTS front-end.



## Features & Benefits:

- > A-Band specific
- > Very low transmit and receive insertion loss
- > 90 dB cross-band isolation in both transmit and receive channels
- > Rack mount or cable tray mount
- > Zoning-friendly, reduces number of antennas required
- > Reduces tower lease costs
- > Pretuned

<sup>1</sup>Unused port(s) terminated in 50 ohms

# HighQ Duplexer 850 HP B-Band

## Passband Frequency

### B-Band Specifications

Receive	835 – 849 MHz
Transmit	880 – 894 MHz
VSWR	1.5:1

## Insertion Loss

Receive	0.3 dB*
Transmit	0.3 dB*

*\*typical performance*

## Rejection/Isolation<sup>1</sup>

Antenna to Receive DC – 720 MHz	90 dB*
Antenna to Receive 880 – 2080 MHz	90 dB*
Transmit to Antenna DC – 849 MHz	90 dB*
Transmit to Antenna 1080 – 2280 MHz	90 dB*
Transmit to Receive (measured over Rx and Tx passbands)	90 dB*

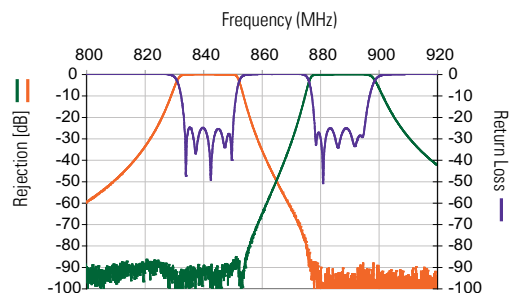
*\*typical performance*

## Mechanical/Environmental

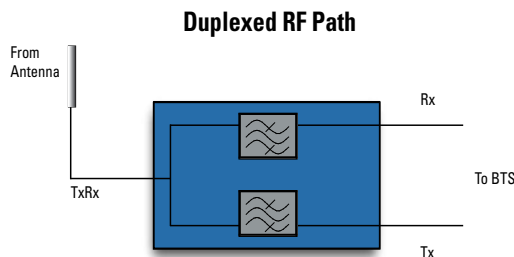
Weight	9 lbs
Size	13.9"W x 4.9"D x 2.8"H (excluding connectors, face plate and tuning screws)
Power Handling	CW 1200 W Peak 10 kW
Operating Temperature	-30 to +60° C
Storage Temperature	-55 to +125° C
Connectors	7/16 DIN-female 50 ohm (BNC-female sample port)
Sample Port (over Rx and Tx pass bands)	-50 dB ±3 dB non directional

## Performance

B-Band Antenna to Receive Port and Antenna to Transmit Port Performance<sup>1</sup>



## Architecture



**Best-in-Class Duplexer Performance.**  
STI's 850 MHz duplexers provide antenna sharing without compromise. Deploy in conjunction with STI's SuperLink<sup>®</sup> 850 to create the ultimate BTS front-end.



## Features & Benefits:

- > B-Band specific
- > Very low transmit and receive insertion loss
- > 90 dB cross-band isolation in both transmit and receive channels
- > Rack mount or cable tray mount
- > Zoning-friendly, reduces number of antennas required
- > Reduces tower lease costs
- > Pretuned

<sup>1</sup>Unused port(s) terminated in 50 ohms