



Passband Characteristics

Cellular Band Rx Port ¹		Cellular Band Tx Port ¹	
Frequency Range	824 – 849 MHz	Frequency Range	869 – 894 MHz
Insertion Loss	0.5 dB (max)	Insertion Loss	0.5 dB (max)
Return Loss	20 dB (min)	Return Loss	20 dB (min)

Rejection/Isolation

Cellular Band Rx Port ¹		Cellular Band Tx Port ¹	
Antenna to Receive DC – 700 MHz	85 dB (min)	DC to 849 MHz	85 dB (min)
Antenna to Receive 869 – 2250 MHz	85 dB (min)	1080 – 2020 MHz	85 dB (min)
1900 MHz to 850 Rx Ports	60 dB (min)		
850 Tx to 850 Rx Ports	85 dB (min)		

Mechanical/Environmental

Weight	10 lbs
Size	14"W x 7"D x 3"H
Cellular Power Handling	Avg. 500 W Peak 5 kW
Operating Temperature	-30 to +50° C
Storage Temperature	-55 to +85° C
Connectors	
Cellular RxTx Ant & PCS	Type N-female 7/16 DIN-female
Tuning Method	Pretuned

1900 MHz Tx/Rx Port

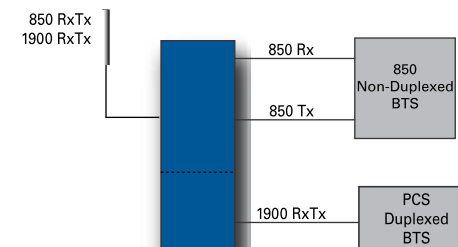
Passband Characteristics	
Frequency Range	1850 – 1990 MHz
Insertion Loss	0.3 dB (max)
Return Loss	20 dB
Rejection Characteristics (Ant. to 1900 MHz Tx/Rx Ports)	
850 MHz Tx/Rx Bands (824 MHz to 894 MHz)	60 dB
Average PCS Power Handling	250 W (max)
Peak PCS Power Handling	2.5 kW (max)

Features & Benefits:

- > Clean, high-performance solution to a PCS overlay or multiple carrier overlays
- > Zoning friendly, allows PCS and cellular to co-exist on one antenna without compromising performance
- > High isolation 85 dB cellular, 60 dB PCS
- > Low insertion loss
- > Rack mount or cable tray mount

Architecture

SuperPlex® 1-1900 Triplexing



Best-in-Class Duplexer Performance.

A combination of both the PCS and high performance cellular duplexer, the SuperPlex® 1-1900 reduces the number of components and cabling required. Related RF losses are reduced to provide exceptional triplexing performance.

¹Unused ports terminated in 50 ohms