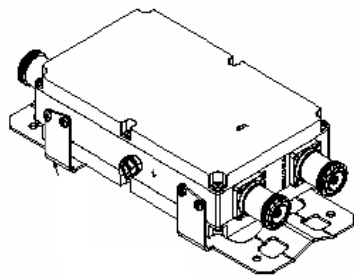


## Indoor / Outdoor Cross Band Combiner



### Overview

Communication Components, Inc.

Diplexer combines 850 and 1900

band basestations onto a single

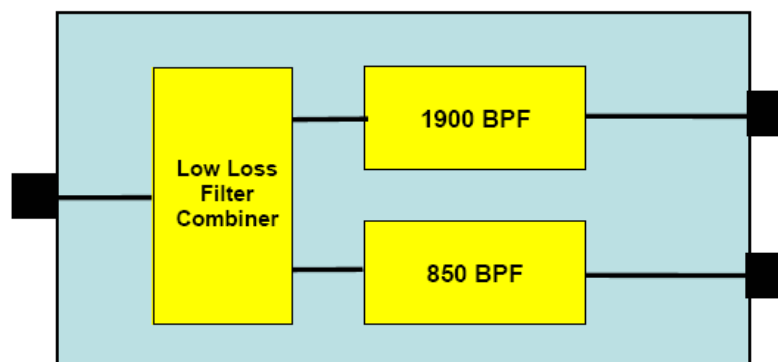
feeder. The unit is a single 19" 1U tray, containing two diplexers.

The CCI Diplexer provides full band performance in each band with low insertion loss, low IMDs, and high power handling.

Excellent return loss delivers the best match to the antennas and basestation, saving precious transmitter power. Each input port is highly isolated from the other ports. The unit employs D.C. pass-through in the 1900 path to provide power to Tower Mount Amplifiers (TMAs / TTAs).

Combines  
850 and 1900  
Basestations  
onto a single  
feeder

### Block Diagram



### Features:

- Two diplexers in a single 1U high tray
- DC inputs for passing bias through 1900 path
- Very low insertion loss

PRODUCTS MANUFACTURED BY: Communication Components Inc., [www.cciproducts.com](http://www.cciproducts.com)

# Cross Band Combiner (Diplexer)



## Specifications

Port 1 Channel	
Passband	Full Cellular Band
Insertion loss	0.15 dB typical, 0.25 dB maximum
Return Loss (port 1, port 3)	20 dB Minimum
Rejection (PCS)	60 dBc minimum
Power Handling	500 Watts Average, 4KW peak
IM3	160 dBc min., 2 x 20 W carriers
Port 2 Channel	
Passband	Full PCS Band
Insertion Loss	0.2 dB typical, 0.35 dB maximum
Return Loss (Port 2, Port 3)	20 dB minimum
Rejection (Cellular)	50 dBc minimum
Power Handling	250 Watts Average, 3 KW Peak
IM3	160 dBc min., 2 x 20 W carriers
Common Specifications	
Isolation (Port 1 to 2, Port 2 to 1)	60 dBc min., 50 dBc min.
DC Pass Current	3A
Impedance	50 Ohms
Operating Temperature	-40 to +65 deg. C
Connectors	7/16 DIN Female
Dimensions	17" x 7.6" x 1.75" Maximum
Weight	4.5 Pounds
MTBF	500,000 Hours Minimum
Environmental Protection (Outdoor Unit)	Indoor or Outdoor to IP67
Finish (Outdoor Unit)	Epoxy Powder Coat

PRODUCTS MANUFACTURED BY: Communication Components Inc., [www.ccjproducts.com](http://www.ccjproducts.com)