



Filters & Combiners

DATA SHEET

Cellular/PCS Dual Diplexer

DDI-1819-2



- Combines 850 and 1900 basestations onto a single feeder
- Two diplexers in a single 1U high tray
- DC inputs for passing bias through 1900 path
- Very low insertion loss

Overview

Communication Components, Inc. Dual Diplexer combines 850 and 1900 band basestations onto a single feeder. The unit is a single 19" 1U tray, containing two diplexers.

The CCI Dual Diplexer provides full band performance in each band with low insertion loss, low IMD's, 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 (TMA's / TTA's).



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SPECIFICATIONS

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Electrical

RF Parameters	Ports	Frequency(MHz)	Specification
Return Loss	COMMON	824 - 894	20 dB min.
		1850 - 1990	20 dB min.
	850	824 - 894	20 dB min.
	1900	1850 - 1990	20 dB min.
Insertion Loss	COMMON to 850	824 - 894	0.15 dB typ., 0.25 dB max.
	COMMON to 1900	1850 - 1990	0.2 dB typ., 0.35 dB max.
Rejection	COMMON to 850	1850 - 1990	60 dB min.
	COMMON to 1900	824 - 894	50 dB min.
General Characteristics			
Impedance	50 ohms		
Continuous Average Power	500 W max. (850), 250 W max. (1900)		
Peak Envelope Power	4 kW max. (850), 3 kW max. (1900)		
Intermodulation Performance(Low or High band ports)	<-117 dBm (-160 dBc) minimum (2 x +43 dBm tones) all bands		
DC Pass Current (1900 to COMMON port)	3A		

Environmental

Operating Temperature	-40°C to +65°C
Enclosure	Indoor
MTBF	>500,000 hours

Mechanical

Connectors	6 x 7-16 DIN female neck
Dimensions(HxWxD)	1.75 x 17 x 7.6 in. (44.45 x 431.8 x 193.04 mm)
Weight	4.5 lbs (114.3 kg)



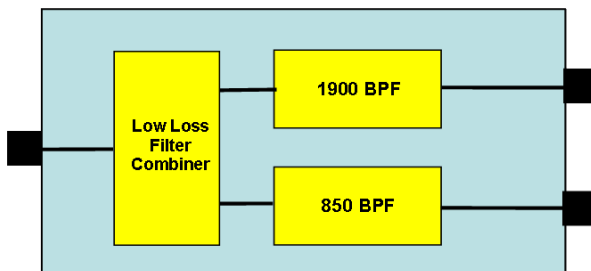
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Block Diagram



850/1900 Individual Diplexer Block Diagram



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ORDERING

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Parts & Accessories

DDI-1819-2 Cellular/PCS Dual Diplexer rack mount



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STANDARDS &
CERTIFICATIONS

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Certifications

Federal Communication Commission (FCC) Part 15 Class B, CE, CSA US



CCI Communication Components Inc.
EXTENDING WIRELESS PERFORMANCE