

Westell Cross Band Coupler | Public Safety 700 & 800 MHz

Includes FirstNet

General Description

Westell Cross Band Couplers provide for the combining of multiple frequency bands on shared cables and multi-band antennas or the splitting of 2 frequency bands to inject into a DAS head-end.

This cross band coupler separates and joins the 700MHz public safety band (including FirstNet) with the 800MHz public safety band.

Product Highlights

- VSWR $\leq 1.43:1$
- IP67 rated to withstand a direct water spray
- Power Rating 50 Watts Avg.

Frequency Range

- Port 1: UL 788-805/DL 758-775 MHz (FirstNet)
- Port 2: UL 806-824/DL 851-869 MHz

Electrical Specifications

Frequency Range	Port 1: UL 788-805/DL 758-775 Port 2: UL 806-824/DL 851-869
VSWR	$\leq 1.43:1$
PIM (2x43dBm)	≤ -153 dBc
Input/Output Impedance	50 Ohm
Power Rating	50 Watts Avg.
Insertion Loss	758-775 > 0.3dB
	788-805 > 2.7dB max, 0.5 typ
	806-824 > 2.7dB max, 0.5 typ
	851-869 > 0.3dB



Cross Band Coupler PS700/800

Ordering Information

Part Number	Description
CS06-764-838	CBC-PS7(FN)/PS8/N(f)

Mechanical Specifications

Case Material	Aluminum
Installation Kits	Stainless Steel
Connectors	N-Female
Weather resistance	IP67
Color	Red 200C
Weight	3 lbs
Dimensions (WxHxD)	7.5"x5.8"x2.2" (excludes mounting hardware)
Operating temperature	-20° C to +60 ° C
Storage Temperature	-40° C to +85 ° C
Relative Humidity	5% - 95%
Mounting Hardware	Pole/Wall mounting hardware included

Block Diagram

