

### Product Classification

**Product Type** 

## General Specifications

Product Family	CBC426
Color	Gray
Common Port Label	ANT
Modularity	2-Twin
Mounting	Pole   Wall
Mounting Pipe Hardware	Band clamps (2)
RF Connector Interface	4.3-10 Female
RF Connector Interface Body Style	Long neck

#### Dimensions

Height	200 mm   7.874 in
Width	111 mm   4.37 in
Depth	104 mm   4.094 in
Ground Screw Diameter	5 mm   0.197 in
Mounting Pipe Diameter Range	40–160 mm

#### Twin 2-pak Diplexer, 380–960 MHz/1425–2690 MHz, DC SMART bypass all, with 4.3-10 connectors

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- Industry leading PIM performance New 4.3-10 connectors for improved PIM performance and size reduction
- Minimal Insertion Loss

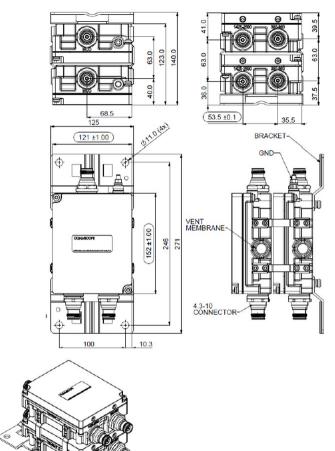
Diplexer

- Ultra-wideband low-band combiner
- Ultra-wideband high-band combiner
- DC/AISG SMART bypass functionality

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## Outline Drawing



### Electrical Specifications

#### Impedance

50 ohm

License Band, Band Pass	APT 700   AWS 1700   CEL 850   CEL 900   DCS 1800   EDD 800   IMT 2100   IMT 2600   LMR 750   LMR 800   LMR 900   PCS 1900   SDL 1400   TDD 2300   TDD 2600   USA 700   USA 750   WCS 2300
License Band, LNA	PDC 1500

#### Electrical Specifications, dc Power/Alarm

dc/AISG Pass-through Method	Auto sensing
dc/AISG Pass-through Path	Auto sensing circuitry detects dc/AISG signal presence and selects path
dc/AISG Pass-through, combiner	dc Smart Bypass

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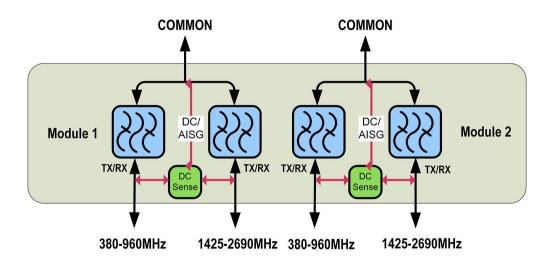


dc/AISG Pass-through, demultiplexer	dc Smart Bypass		
Lightning Surge Current	10 kA		
Lightning Surge Current Waveform	8/20 waveform		
Electrical Specifications, AISG			
AISG Carrier	2176 KHz ± 100 ppm		
Insertion Loss, maximum	0.5 dB		
Return Loss, minimum	15 dB		
Electrical Specifications			
Sub-module	1   2	1   2	
Branch	1	2	
Port Designation	PORT 1 380-960	PORT 2 1425-2690	
License Band	[1, 4, 5, 7, 10, 11, 12, 15, 16	5] [2, 6, 8, 9, 13, 20, 21, 17, 14, 27]	
Electrical Specifications, Band Pass			
Frequency Range, MHz	380–960	1425–2690	
Insertion Loss, typical, dB	0.1	0.1	
Total Group Delay, maximum, ns	10	10	
Return Loss, minimum, dB	20	20	
Return Loss, typical, dB	23	23	
Isolation, minimum, dB	50	50	
Input Power, RMS, maximum, W	500	500	
Input Power, PEP, maximum, W	5000	5000	
3rd Order PIM, typical, dBc	-163	-163	
3rd Order PIM Test Method	2 x 20 W CW tones	Two +43 dBm carriers	

## Block Diagram

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### **Environmental Specifications**

Operating Temperature	-40 °C to +65 °C (-40 °F to +149 °F)
Relative Humidity	5%-100%
Corrosion Test Method	IEC 60068-2-11, 30 days
Ingress Protection Test Method	IEC 60529:2001, IP67
Packaging and Weights	

Included	Mounting hardware
Volume	2.3 L
Weight, net	3.8 kg   8.378 lb

#### Regulatory Compliance/Certifications

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#### Agency

ISO 9001:2015



#### Classification

Designed, manufactured and/or distributed under this quality management system

