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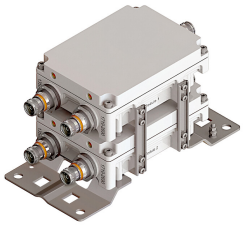

Twin 2-pak Diplexer, 380–960 MHz/1425–2690 MHz, DC SMART bypass, with 4.3-10 connectors

- Industry leading PIM performance
- New 4.3-10 connectors for improved PIM performance and size reduction
- Minimal Insertion Loss
- Ultra-wideband low-band combiner
- Ultra-wideband high-band combiner
- DC/AISG SMART bypass functionality

Product Classification

Product Type	Diplexer

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

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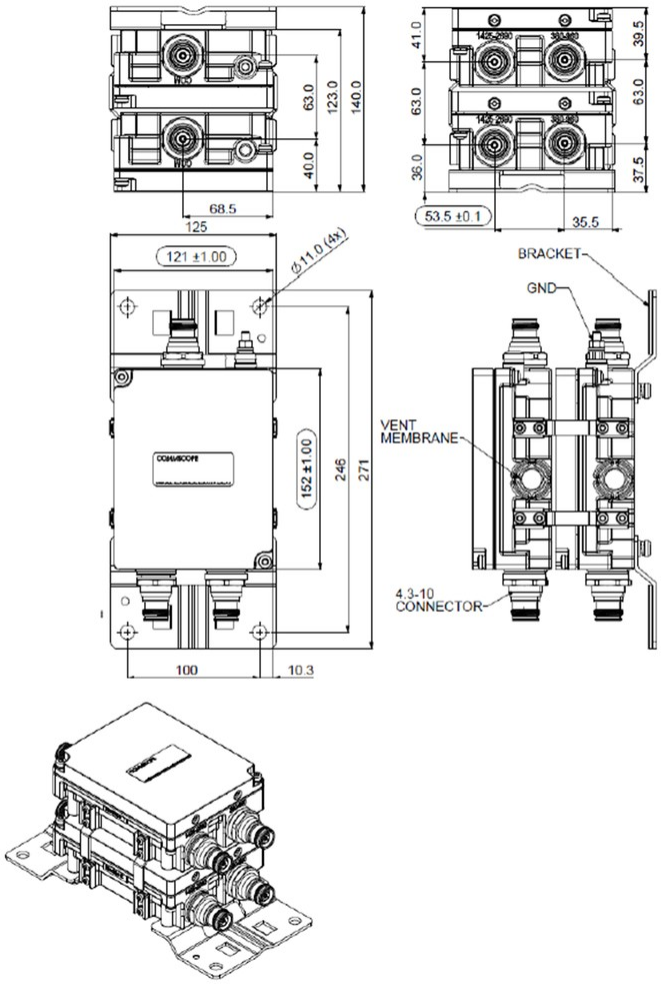
Outline Drawing



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

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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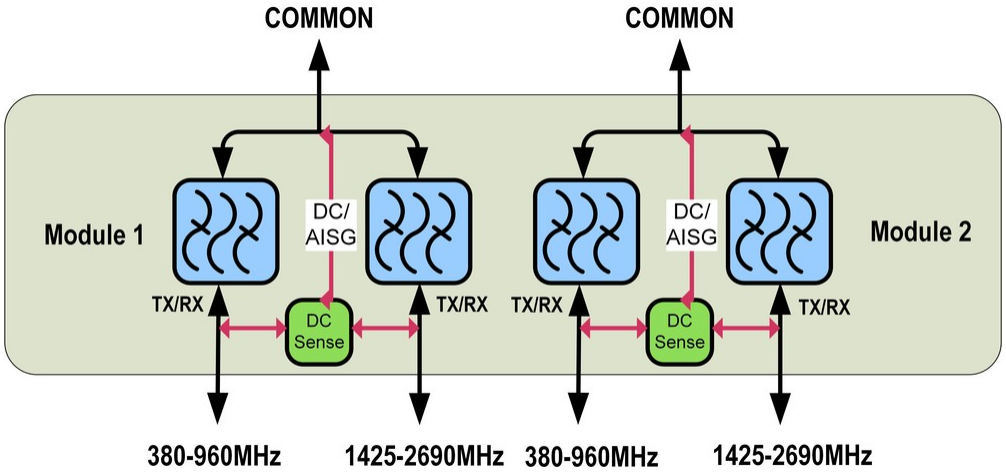

Environmental Specifications

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

Agency	Classification
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system