

Ultra Compact Twin Diplexer 1695-2200/2300-2690 MHz, 4.3-10 connectors

- Ideal for small cell applications
- Compact form factor with reduced size and weight
- Suitable for space limited applications like Metro Cell, Lamp Pole and Concealment Solution
- Industry leading PIM performance
- Designed for network modernization application, introduction of LTE 4x4 MIMO
- Twin configuration
- New 4.3-10 connectors for improved PIM performance and size reduction

Product Classification

Product Type Diplexer

General Specifications

Product Family CBC1726

Color Gray

Common Port LabelCommonModularity2-Twin

RF Connector Interface 4.3-10 Female

RF Connector Interface Body Style Long neck

Dimensions

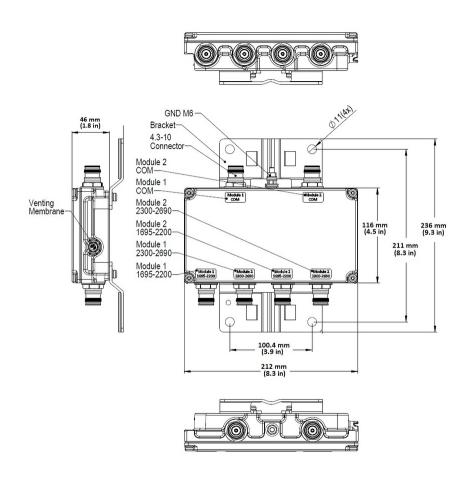
 Height
 212 mm | 8.346 in

 Width
 116 mm | 4.567 in

 Depth
 46 mm | 1.811 in

Outline Drawing





Electrical Specifications

Impedance 50 ohm

License Band, Band PassAWS 1700 | DCS 1800 | IMT 2100 | IMT 2600 | PCS 1900 | TDD

2300 | TDD 2600 | WCS 2300

Electrical Specifications, dc Power/Alarm

dc/AISG Pass-through MethodNo dc/AISG pass-throughdc/AISG Pass-through, combinerdc/AISG blocking on all portsdc/AISG Pass-through, demultiplexerdc/AISG blocking on all ports

Lightning Surge Current 5 kA

Lightning Surge Current Waveform 8/20 waveform



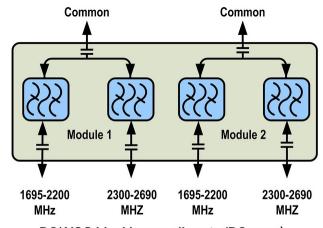
Electrical Specifications

Sub-module	1 2	1 2
Branch	1	2
Port Designation	Port 1695-2200	Port 2300-2690
License Band	DCS 1800, Band Pass	TDD 2600, Band Pass
	IMT 2100, Band Pass	TDD 2300, Band Pass
	AWS 1700, Band Pass	WCS 2300, Band Pass
	PCS 1900, Band Pass	IMT 2600. Band Pass

Electrical Specifications, Band Pass

Frequency Range, MHz	1695-2200	2300-2690
Insertion Loss, typical, dB	0.25	0.25
Total Group Delay, maximum, ns	12	12
Return Loss, minimum, dB	20	20
Return Loss, typical, dB	23	23
Isolation, typical, dB	40	40
Input Power, RMS, maximum, W	100	100
Input Power, PEP, maximum, W	1500	1500
3rd Order PIM, maximum, dBc	-155	-155
3rd Order PIM Test Method	2 x 20 W CW tones	2 x 20 W CW tones

Block Diagram



DC/AISG blocking on all ports (DC open)

Material Specifications

Finish Painted

COMMSCOPE®

Environmental Specifications

Operating Temperature $-40 \,^{\circ}\text{C} \text{ to } +65 \,^{\circ}\text{C} \, (-40 \,^{\circ}\text{F to } +149 \,^{\circ}\text{F})$

Relative Humidity Up to 100%

Corrosion Test Method IEC 60068-2-11, 30 days

Ingress Protection Test Method IEC 60529:2001, IP67

Packaging and Weights

Mounting Hardware Weight $0.4 \text{ kg} \mid 0.882 \text{ lb}$ Weight, without mounting hardware $1.9 \text{ kg} \mid 4.189 \text{ lb}$

