

Diplexer, 1695-2200/2300-2700 MHz, dc bypass all ports with 4.3-10 connectors

- Industry leading PIM performance
- New 4.3-10 connectors for improved PIM performance and size reduction
- dc/AISG pass-through on all frequency ports
- Designed for network Modernization, introduction of LTE2600 on existing site

OBSOLETE

This product was discontinued on: December 30, 2024

Replaced By:

E14F55P16 Ultra Compact Twin Diplexer 1710-2180/2500-2690 MHz, 4.3-10 connectors

Product Classification

Product Type Diplexer

General Specifications

Product Family CBC1726

Color Gray

Common Port Label COMM

Modularity 1-Single

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
 152.4 mm | 6 in

 Width
 123 mm | 4.843 in

 Depth
 59 mm | 2.323 in

 RF Connector Length
 25 mm | 0.984 in

 Ground Screw Diameter
 6 mm | 0.236 in

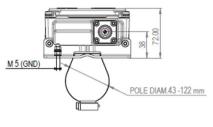


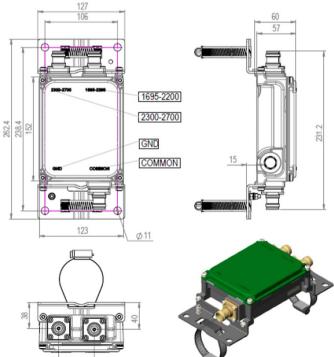
Mounting Pipe Diameter Range

42.6-122 mm



Outline Drawing





Electrical Specifications

Impedance 50 ohm

License Band, Band Pass AWS 1700 | DCS 1800 | IMT 2100 | IMT 2600 | PCS 1900 | WCS 2300

Electrical Specifications, dc Power/Alarm

dc/AISG Pass-through Method Factory set

dc/AISG Pass-through PathBranch 1| Branch 2dc/AISG Pass-through, combinerBranch 1| Branch 2dc/AISG Pass-through, demultiplexerBranch 1| Branch 2

Lightning Surge Current 3 kA



Lightning Surge Current Waveform 10/350 waveform

Electrical Specifications

 Sub-module
 1
 1

 Branch
 1
 2

Port Designation 1695-2200 2300-2700

License Band

AWS 1700, Band Pass
DCS 1800, Band Pass

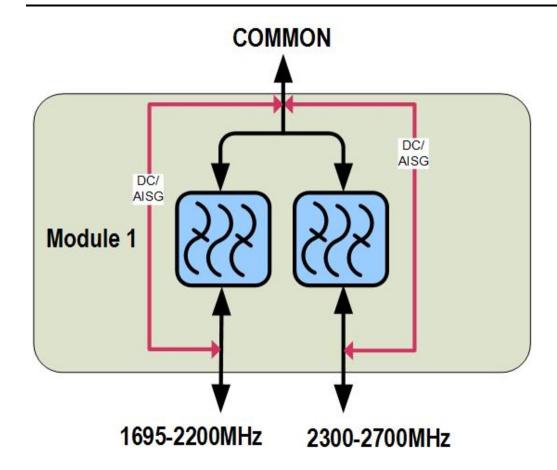
IMT 2100, Band Pass PCS 1900, Band Pass IMT 2600, Band Pass WCS 2300, Band Pass

Electrical Specifications, Band Pass

Frequency Range, MHz	1695-2200	2300-2700
Insertion Loss, typical, dB	0.2	0.2
Total Group Delay, maximum, ns	30	30
Return Loss, typical, dB	20	20
Isolation, minimum, dB	50	50
Input Power, PEP, maximum, W	3500	3500
3rd Order PIM, typical, dBc	-160	-160
3rd Order PIM Test Method	Two +43 dBm carriers	Two +43 dBm carriers

Block Diagram





Environmental Specifications

Operating Temperature $-40 \,^{\circ}\text{C} \text{ to } +60 \,^{\circ}\text{C} \, (-40 \,^{\circ}\text{F to } +140 \,^{\circ}\text{F})$

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

Included Mounting hardware

Volume 1.2 L

Weight, net $2.4 \text{ kg} \mid 5.291 \text{ lb}$ Weight, without mounting hardware $2 \text{ kg} \mid 4.409 \text{ lb}$

