E16V90P37

Quadplexer, dc bypass port 2, with 4.3-10 connectors

- New 4.3-10 connectors for improved PIM performance and size reduction
- Industry leading PIM performance
- Suitable for feeders cables reduction

This product will be discontinued on: December 30, 2024

Replaced By:

E14F15P13	Quadplexer 698-960/18/21/23-26, dc bypass on all ports, 4.3-10 connectors

Product Classification

Product Type	Quadplexer

General Specifications

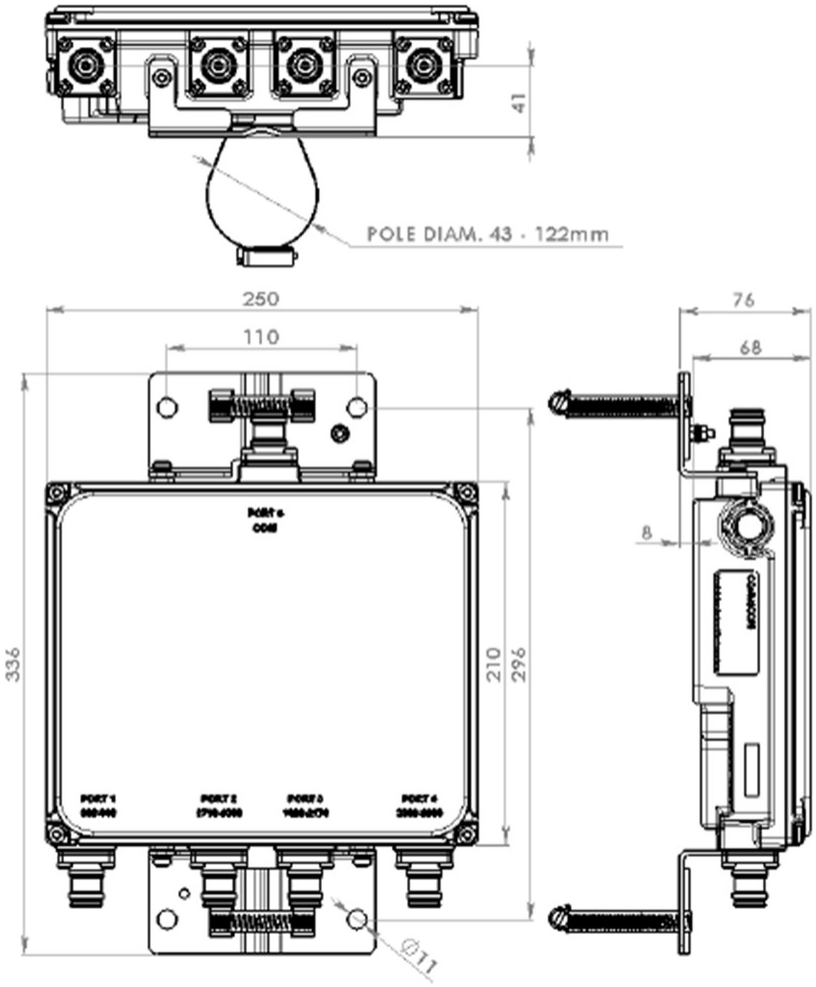
Product Family	CBC7182126
Color	Gray
Modularity	1-Single
Mounting	Pole | Wall
Mounting Pipe Hardware	Band clamps (2)
RF Connector Interface	4.3-10 Female
RF Connector Interface Body Style	Medium neck

Dimensions

Height	210 mm | 8.268 in
Width	250 mm | 9.843 in
Depth	68 mm | 2.677 in
Mounting Pipe Diameter Range	42.6–122 mm

E16V90P37

Outline Drawing



Electrical Specifications

Impedance	50 ohm
License Band, Band Pass	APT 700 | CEL 850 | CEL 900 | DCS 1800 | EDD 800 | IMT 2100 | IMT 2600 | LMR 800 | LMR 900

Electrical Specifications, dc Power/Alarm

dc/AISG Pass-through, combiner	Branch 2
dc/AISG Pass-through, demultiplexer	Branch 2
Lightning Surge Current	5 kA
Lightning Surge Current Waveform	8/20 waveform

E16V90P37

Electrical Specifications, AISG

AISG Carrier	2176 KHz ± 100 ppm
Insertion Loss, maximum	0.5 dB
Return Loss, minimum	10 dB

Electrical Specifications

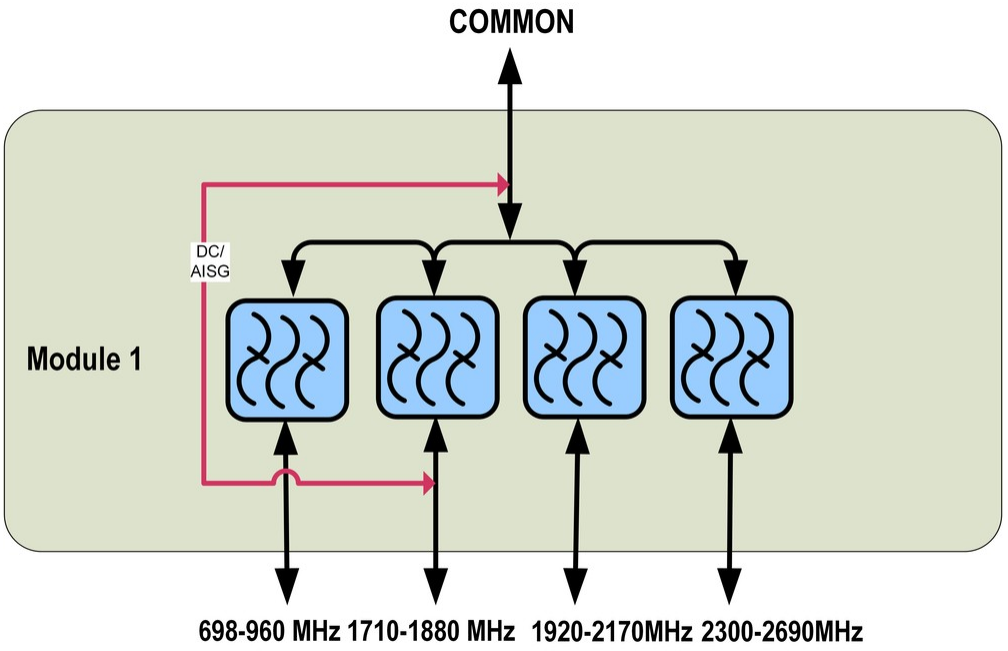
Sub-module	**1**	**1**	**1**	**1**
Branch	1	2	3	4
Port Designation	PORT 1 698-960	PORT 2 1710-1880	PORT 3 1920-2170	PORT 4 2300-2690
License Band	APT 700, Band Pass CEL 850, Band Pass CEL 900, Band Pass EDD 800, Band Pass LMR 800, Band Pass LMR 900, Band Pass	DCS 1800, Band Pass	IMT 2100, Band Pass	IMT 2600, Band Pass

Electrical Specifications, Band Pass

Frequency Range, MHz	**698–960**	**1710–1880**	**1920–2170**	**2300–2690**
Insertion Loss, typical, dB	0.1	0.2	0.2	0.15
Return Loss, minimum, dB	18	18	18	18
Return Loss, typical, dB	20	20	20	20
Isolation, minimum, dB	50	50	50	50
Input Power, RMS, maximum, W	300	300	300	200
3rd Order PIM, typical, dBc	-160	-160	-160	-160
3rd Order PIM Test Method	Two +43 dBm carriers	Two +43 dBm carriers	Two +43 dBm carriers	Two +43 dBm carriers

Block Diagram

E16V90P37



Mechanical Specifications

Wind Speed, maximum	216 km/h (134 mph)

Environmental Specifications

Operating Temperature	-40 °C to +65 °C (-40 °F to +149 °F)
Relative Humidity	15%–100%
Corrosion Test Method	IEC 60068-2-11, 30 days
Ingress Protection Test Method	IEC 60529:2001, IP67
Vibration Test Method	IEC 60068-2-6

Packaging and Weights

Included	Mounting hardware
Weight, net	5 kg | 11.023 lb