CBC7LPST-DCB | E11F13P03

Twin Diplexer 698-746/758-798 with DC Block

- Diplexer for Band 12 & Band 14 combining applications
- dc/AISG blocking on all ports (DC grounded)

OBSOLETE

This product was discontinued on: January 1, 2020

Product Classification

Product Type	Diplexer

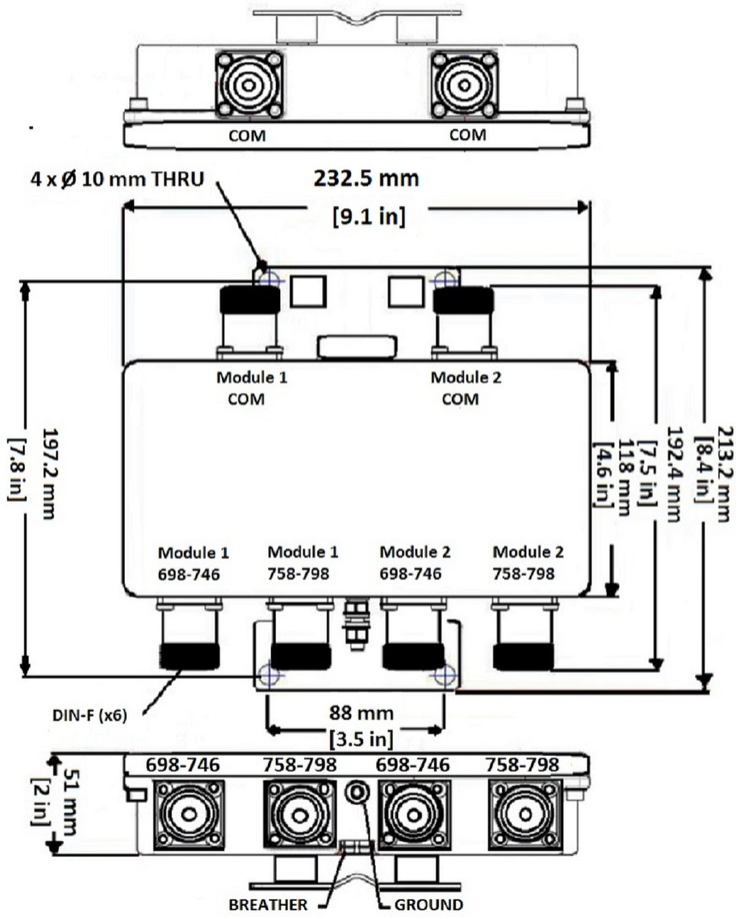
General Specifications

Color	Gray
Common Port Label	COM
Modularity	2-Twin
Mounting	Pole | Wall
Mounting Pipe Hardware	Band clamps (2)
RF Connector Interface	7-16 DIN Female
RF Connector Interface Body Style	Long neck

Dimensions

Height	232.5 mm | 9.154 in
Width	118 mm | 4.646 in
Depth	51 mm | 2.008 in
Ground Screw Diameter	6 mm | 0.236 in

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 | LMR 750 | LMR 800 | LMR 900 | PCS 1900 | USA 700 | USA 750

Electrical Specifications, dc Power/Alarm

Lightning Surge Current	10 kA
Lightning Surge Current Waveform	8/20 waveform

Electrical Specifications

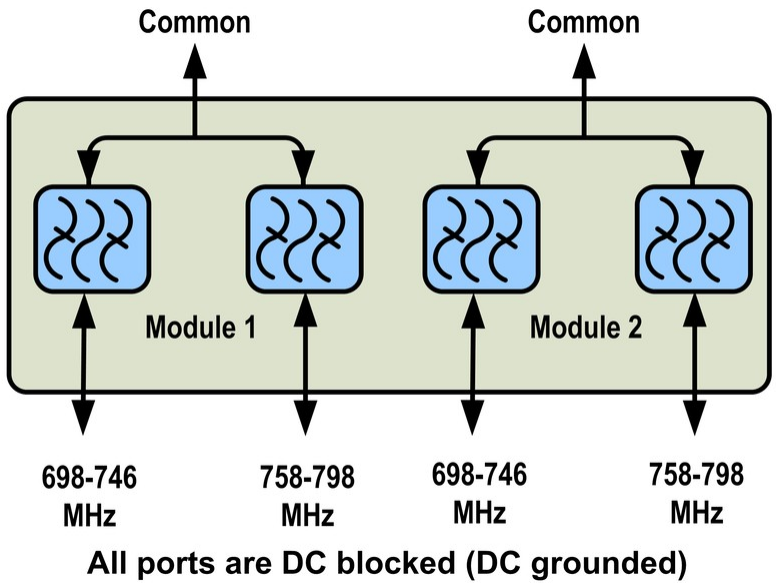
Sub-module	**1**	**1**

Branch	1	2
License Band	USA 700, Band Pass	USA 700, Band Pass

Electrical Specifications, Band Pass

Frequency Range, MHz	**698–746**	**758–798**
Insertion Loss, maximum, dB	0.5	0.5
Insertion Loss, typical, dB	0.35	0.35
Total Group Delay, typical, ns	7	6
Return Loss, typical, dB	22	22
Isolation, minimum, dB	35	35
Input Power, RMS, maximum, W	100	100
Input Power, PEP, maximum, W	1500	1500
3rd Order PIM, minimum, dBc	-155	-155
3rd Order PIM Test Method	2 x 20 W CW tones	2 x 20 W CW tones

Block Diagram



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
Weight, without mounting hardware	2.5 kg | 5.512 lb

Regulatory Compliance/Certifications

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

ISO 9001:2015