

Twin Diplexer, 600AE/700LABC, DC Sense, 4.3-10

- Automatic dc switching with dc sense
- Convertible mounting brackets
- Stackable in multiples with included hardware
- New 4.3-10 connectors for improved PIM performance and size reduction

OBSOLETE

This product was discontinued on: March 30, 2024Replaced By:E14F06P51Quad Diplexer 617-698/703-960 MHz, 4.3-10 connectors

Product Classification

Ground Screw Diameter

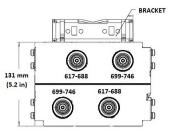
Product Type	Diplexer	
General Specifications		
Color	Gray	
Common Port Label	COMM	
Modularity	2-Twin	
Mounting	Pole Wall	
Mounting Pipe Hardware	Band clamps (2)	
RF Connector Interface	4.3-10 Female	
RF Connector Interface Body Style	Long neck	
Dimensions		
Height	177 mm 6.969 in	
Width	181 mm 7.126 in	
Depth	131 mm 5.157 in	

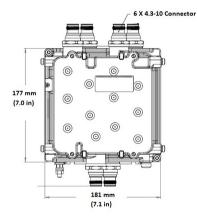
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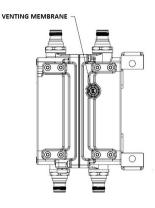
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6 mm | 0.236 in

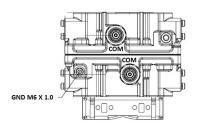
Outline Drawing







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Electrical Specifications

Impedance	50 ohm	
License Band, Band Pass	CEL 850 USA 600 USA 700 USA 750	
Electrical Specifications, Common Port		

Composite Power, PEP

250 W

Electrical Specifications, dc Power/Alarm

dc/AISG Pass-through Method	Auto sensing
dc/AISG Pass-through Path	See logic table
Lightning Surge Current	10 kA

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Lightning Surge Current Waveform

8/20 waveform

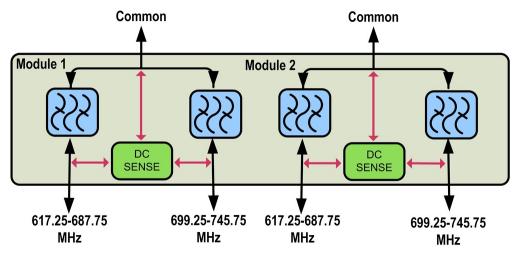
Electrical Specifications

Sub-module	1 2	1 2
Branch	1	2
License Band	USA 600, Band Pass	USA 700, Band Pass

Electrical Specifications, Band Pass

Frequency Range, MHz	617.25-687.75	699.25-745.75
Insertion Loss, maximum, dB	0.45	0.45
Insertion Loss, typical, dB	0.2	0.2
Total Group Delay, maximum, ns	75	70
Return Loss, typical, dB	22	22
Isolation, typical, dB	53	48
Input Power, RMS, maximum, W	200	200
Input Power, PEP, maximum, W	2000	2000
3rd Order PIM, typical, dBc	-161	-161
3rd Order PIM Test Method	2 x 20 W CW tones	2 x 20 W CW tones

Block Diagram



Logic Table

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Combining M	lode Operation (Groun	d Based)	
RF	Ports Input Voltage		
617.25 to 687.75 MHz	699.25 to 745.75 MHz	COMMON	DC/AISG Path Selection
7 ≤ V ≤ 30	<7	<7	617.25 to 687.75 MHz to COMMON "ON"
<7	7 ≤ V ≤ 30	<7	699.25 to 745.75 MHz to COMMON "ON"
7 ≤ V ≤ 30	7 ≤ V ≤ 30	<7	617.25 to 687.75 MHz to COMMON "ON"
Splitting N	Node Operation (Towe	r Top)	
RF Ports In	pedance DC (Load se	ensing)	
617.25 to 687.75 MHz	699.25 to 745.75 MHz	COMMON	DC/AISG Path Selection
open/load	short	$7 \le V \le 30$	COMMON to 617.25-687.75 "ON"
short	open/load	7 ≤ V ≤ 30	COMMON to 699.25-745.75 "ON"
open/load	open/load	$7 \le V \le 30$	ALL ports ON
short	short	$7 \le V \le 30$	ALL ports OFF

Environmental Specifications

-40 °C to +65 °C (-40 °F to +149 °F)
5%-100%
IEC 60068-2-11, 30 days
IEC 60529:2001, IP67

Packaging and Weights

Included	Mounting hardware
Mounting Hardware Weight	0.5 kg 1.102 lb
Weight, without mounting hardware	5.3 kg 11.684 lb

Regulatory Compliance/Certifications

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

