E14F06P83



Ultra Compact Single Diplexer 700-800/900, 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, Concealment Solution and Macro Site
- New 4.3-10 connectors for improved PIM performance and size reduction
- Single configuration
- dc/AISG pass-through on all frequency ports

Product Classification

Product Type Diplexer

General Specifications

Product Family CBC789
Color Gray

Common Port LabelCommonModularity1-Single

MountingPole | WallMounting Pipe HardwareBand clamps (2)RF Connector Interface4.3-10 FemaleRF Connector Interface Body StyleLong neck

Dimensions

 Height
 59.5 mm | 2.343 in

 Width
 155.5 mm | 6.122 in

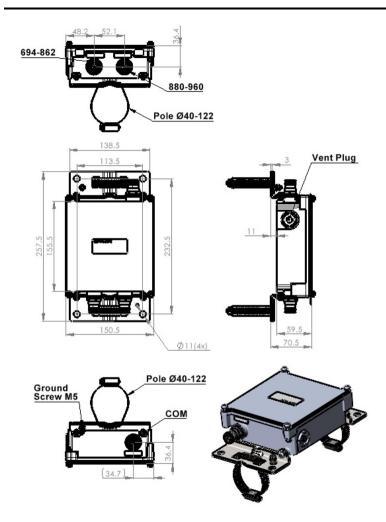
 Depth
 150.5 mm | 5.925 in

Mounting Pipe Diameter Range 43-122 mm

Dimension Drawing



E14F06P83



Electrical Specifications

Impedance 50 ohm

License Band, Band Pass APT 700 | CEL 900 | EDD 800 | LMR 800

Electrical Specifications, dc Power/Alarm

dc/AISG Pass-through Method Factory set

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

Lightning Surge Current 5 kA

Lightning Surge Current Waveform 8/20 waveform

Pass-through Current, maximum 3 A

COMMSCOPE®

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Electrical Specifications

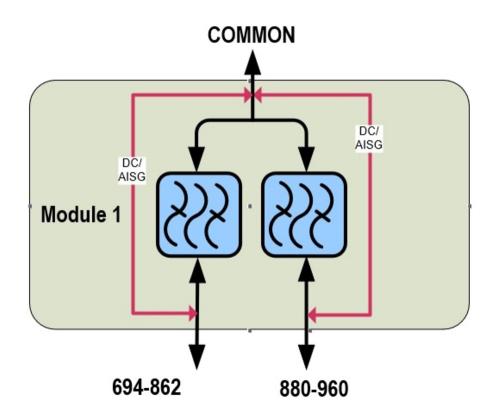
Sub-module	1 2	1 2
Branch	1	2
Port Designation	PORT 1 694-862	PORT 2 880-960
License Band	APT 700, Band Pass	CEL 900, Band Pass

LMR 800, Band Pass

Electrical Specifications, Band Pass

Frequency Range, MHz	694-862	880-960
Insertion Loss, typical, dB	0.3	0.3
Return Loss, minimum, dB	18	18
Return Loss, typical, dB	22	22
Isolation, minimum, dB	50	50
Isolation, typical, dB	53	53
Input Power, RMS, maximum, W	300	300
Input Power, PEP, maximum, W	3000	3000
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 $-40 \,^{\circ}\text{C}$ to $+65 \,^{\circ}\text{C}$ (-40 $^{\circ}\text{F}$ to $+149 \,^{\circ}\text{F}$)

Corrosion Test Method IEC 60068-2-11, 30 days
Ingress Protection Test Method IEC 60529:2001, IP67

Packaging and Weights

IncludedMounting hardwareWeight, net2.3 kg | 5.071 lbWeight, without mounting hardware1.95 kg | 4.299 lb

Regulatory Compliance/Certifications

Agency Classification

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

