

# Compact Single Triplexer 380-2200/2300-2700/ 3300-4200 MHz, 4.3-10 connectors

- New Combining Solution to introduce 5G, 3.5GHz band
- BTS-to-feeder and feeder-to-antenna application
- New 4.3-10 connectors for improved PIM performance and size reduction
- dc/AISG pass-through on low frequency ports
- Suitable for space limited applications like Metro Cell, Lamp Pole, Concealment Solution and Macro Site
- Ideal for small cell applications

#### **Product Classification**

Product Type Triplexer

#### General Specifications

ColorGrayCommon Port LabelCOMMModularity1-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
 110 mm | 4.331 in

 Width
 110 mm | 4.331 in

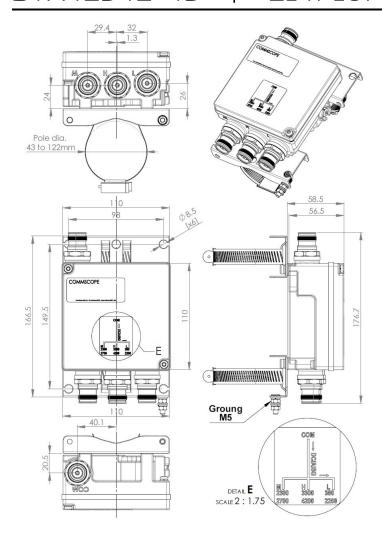
 Depth
 56.5 mm | 2.224 in

 Ground Screw Diameter
 5 mm | 0.197 in

 Mounting Pipe Diameter Range
 43-122 mm

#### 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 | IMT 2600 | LMR 750 | LMR 800 | LMR 900 | PCS 1900 | TDD

3500 | USA 600 | USA 700 | USA 750 | WCS 2300

#### Electrical Specifications, dc Power/Alarm

dc/AISG Pass-through MethodFactory setdc/AISG Pass-through PathBranch 1dc/AISG Pass-through, combinerBranch 1Lightning Surge Current5 kA

**Lightning Surge Current Waveform** 8/20 waveform

Voltage 7–32 Vdc

**COMMSCOPE®** 

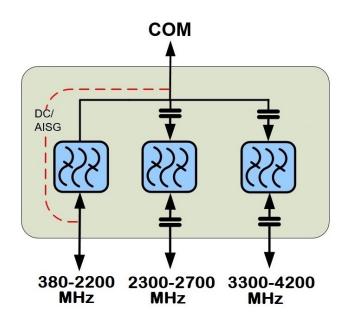
### **Electrical Specifications**

Sub-module	1   2	1   2	1   2
Branch	1	2	3
Port Designation	380-2200	2300-2700	3300-4200
License Band	PCS 1900, Band Pass USA 700, Band Pass USA 750, Band Pass AWS 1700, Band Pass USA 600, Band Pass AWS 2000, Band Pass CEL 850, Band Pass CEL 900, Band Pass DCS 1800, Band Pass IMT 2100, Band Pass	TDD 2300, Band Pass IMT 2600, Band Pass	TDD 3500, Band Pass

### Electrical Specifications, Band Pass

Frequency Range, MHz	380-960 1350-2200	2300-2700	3300-4200
Insertion Loss, typical, dB	0.1	0.1	0.1
Total Group Delay, typical, ns	3	5	3
Return Loss, typical, dB	20	20	20
Isolation, minimum, dB	40	40	40
Input Power, RMS, maximum, W	100	100	100
Input Power, PEP, maximum, W	1000	1000	1000
3rd Order PIM, typical, dBc	-163	-163	-163
3rd Order PIM Test Method	Two +43 dBm carriers	Two +43 dBm carriers	Two +43 dBm carriers

### Block Diagram



#### **Environmental Specifications**

**Operating Temperature**  $-40 \,^{\circ}\text{C} \text{ to } +65 \,^{\circ}\text{C} \, (-40 \,^{\circ}\text{F to } +149 \,^{\circ}\text{F})$ 

**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 0.7 L

Weight, with mounting hardware  $1.5 \text{ kg} \mid 3.307 \text{ lb}$ Weight, without mounting hardware  $1.3 \text{ kg} \mid 2.866 \text{ lb}$