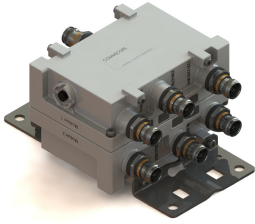


E14F11P05



Twin Triplexer 380-960/1350-2200/2300- 2700, DC-sense with 4.3-10 connectors

- BTS-to-feeder and feeder-to-antenna application
- Automatic dc switching with dc sense
- New 4.3-10 connectors for improved PIM performance and size reduction

Product Classification

Product Type Triplexer

General Specifications

Color Gray

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 102 mm | 4.016 in

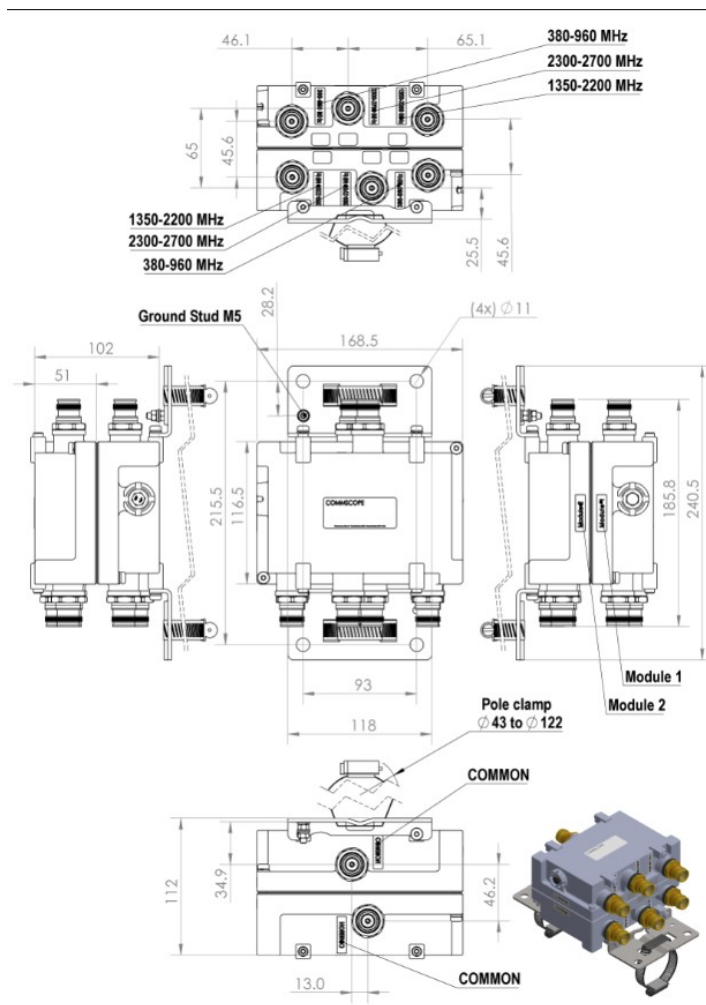
Width 168.5 mm | 6.634 in

Depth 116.5 mm | 4.587 in

Mounting Pipe Diameter Range 43–122 mm

Outline Drawing

E14F11P05



Electrical Specifications

Impedance 50 ohm

Electrical Specifications, dc Power/Alarm

dc/AISG Pass-through Method Auto sensing

dc/AISG Pass-through Path Auto sensing circuitry detects dc/AISG signal presence and selects path

dc/AISG Pass-through, combiner Autosensing

dc/AISG Pass-through, demultiplexer Autosensing

Lightning Surge Current 10 kA

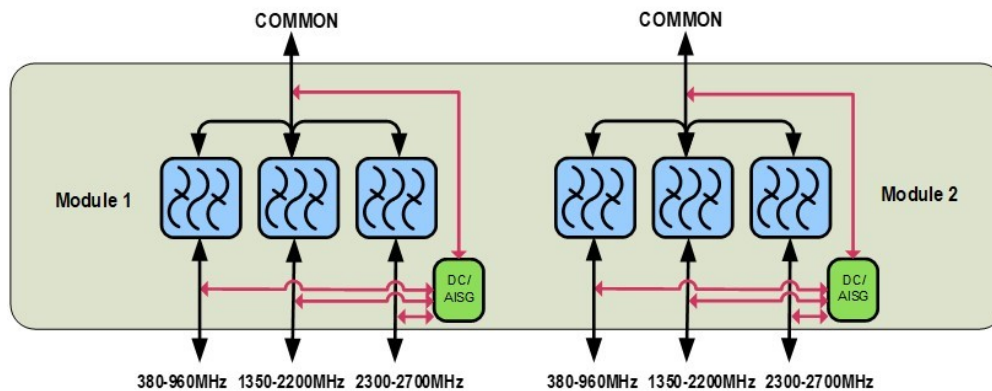
Lightning Surge Current Waveform 8/20 waveform

Electrical Specifications

E14F11P05

Sub-module	1 2	1 2	1 2
Branch	1	2	3
Port Designation	380-960	1350-2200	2300-2700
Electrical Specifications, Band Pass			
Frequency Range, MHz	380–960	1350–2200	2300–2700
Insertion Loss, typical, dB	0.2	0.2	0.2
Return Loss, typical, dB	20	20	20
Isolation, typical, dB	52	52	52
Input Power, RMS, maximum, W	200	200	200
Input Power, PEP, maximum, W	2000	2000	2000
3rd Order PIM, typical, dBc	-162	-162	-162
3rd Order PIM Test Method	Two +43 dBm carriers	Two +43 dBm carriers	Two +43 dBm carriers

Block Diagram



Logic Table

E14F11P05

Combining Mode Operation (Bottom)				
PORT 1 380-960	PORT 2 1695-2200	PORT 3 2300-2700	COMMON	
RF Ports Input Voltage				DC/AISG Path Selection
Any*	Any*	$7 \leq V \leq 30$	<7	380-960 MHz "OFF" 1695-2200 MHz "OFF" 2300-2700MHz "ON" 380-960 MHz "ON"
$7 \leq V \leq 30$	Any*	<7	<7	1695-2200 MHz "OFF" 2300-2700MHz "OFF" 380-960 MHz "OFF"
<7	$7 \leq V \leq 30$	<7	<7	1695-2200 MHz "ON" 2300-2700MHz "OFF"
<7	<7	<7	<7	ALL PORTS OFF

* Any DC voltage applied in the ON (7-30V) or OFF (< 7V) ranges
 Note: When two or more DC/AISG are available, port with higher priority is bypassed to common

DC/AISG PORT Priority
PORT 3 [Highest] PORT 1 PORT 2 [Lowest]

Splitting Mode Operation (Tower Top)				
RF Ports Impedance DC (Load Sense)				
PORT 1 380-960	PORT 2 1695-2200	PORT 3 2300-2700	COMMON	DC/AISG Path Selection
Short	Short	Short	$7 \leq V \leq 30$	ALL PORTS OFF
Open/ Load	Open/ Load	Open/ Load	$7 \leq V \leq 30$	ALL PORTS ON
One or more port(s) are Open/ Load			$7 \leq V \leq 30$	DC/AISG will be passed to ALL Open/Load port(s)

Note: In this mode DC/AISG will be passed to all detected ports and blocked at shortened ones

Environmental Specifications

Operating Temperature	-40 °C to +65 °C (-40 °F to +149 °F)
Relative Humidity	Up to 100%
Corrosion Test Method	IEC 60068-2-11, 30 days
Environmental Test Method	ETSI EN 300 019-1-4
Ingress Protection Test Method	IEC 60529:2001, IP67

Packaging and Weights

Included	Mounting hardware
Volume	2 L
Weight, with mounting hardware	3.9 kg 8.598 lb
Weight, without mounting hardware	3.5 kg 7.716 lb