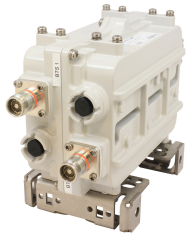# WCS-IMFT-AMT-43 | E15V87P72

Twin WCS IMF for Aeronautical Mobile Telemetry Band Co-Location, 4.3-10

- New 4.3-10 connectors for improved PIM performance and size reduction
- DC/AISG passing capability from BTS port to ANT port
- Convertible mounting brackets

OBSOLETE

This product was discontinued on: May 1, 2020

Replaced By:

SIMFT-WCS-AMT-R40
E14V00P18   Compact Twin WCS IMF for Aeronautical Mobile Telemetry Band Co-Location, 4.3-10

Product Classification

Product Type	Interference mitigation filter

General Specifications

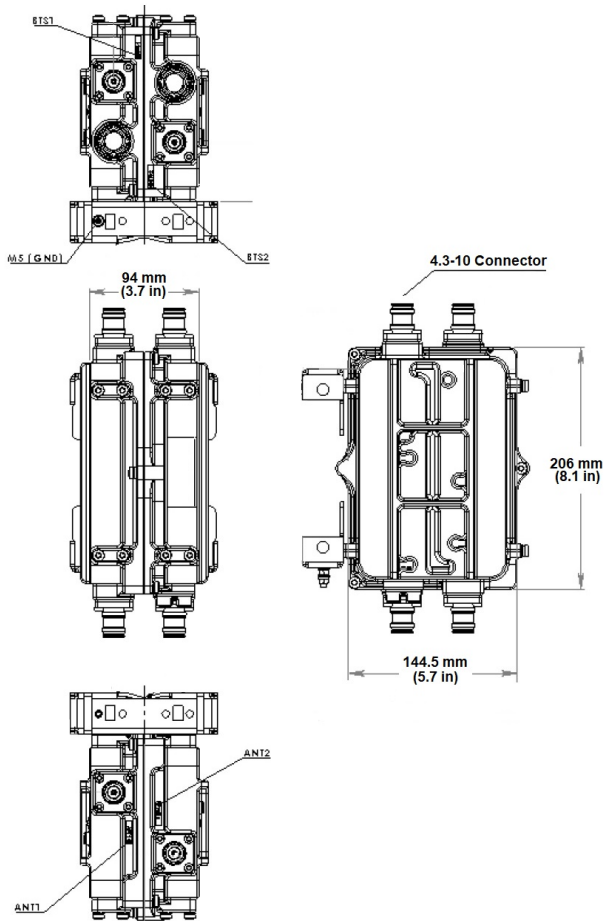|	
Color	Gray
Modularity	2-Twin
Mounting Pipe Hardware	Band clamps (2)
RF Connector Interface	4.3-10 Female

Dimensions

Height	206 mm	8.11 in
Width	144.5 mm	5.689 in
Depth	94 mm	3.701 in

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Outline Drawing

Electrical Specifications, dc Power/Alarm

dc/AISG Pass-through Path	Branch 1
Lightning Surge Current	8 kA
Lightning Surge Current Waveform	8/20 waveform

Electrical Specifications

Sub-module	1 | 2	1 | 2	1 | 2	1 | 2	1 | 2
Branch		1	1	1	1
License Band		WCS 2300, Band Pass	WCS 2300, Band Pass	WCS 2300, Band Pass	WCS 2300, Band Pass

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Electrical Specifications, Band Pass

Frequency Range, MHz	2305–2315	2350–2357	2357–2358.6	2358.6–2358.96
Insertion Loss, maximum, dB	0.3	0.9	1.6	2.2
Insertion Loss, typical, dB	0.2	0.7	1.3	1.8
Total Group Delay, maximum, ns	10	250	250	400
Return Loss, minimum, dB	18	18	16	16
Return Loss, typical, dB	20	20	20	20
Input Power, RMS, maximum, W		100	100	100
Input Power, PEP, maximum, W		1000	1000	1000
Higher Order PIM, minimum, dBc		-153	-153	-153
Higher Order PIM Test Method		2 x 20 W CW tones	2 x 20 W CW tones	2 x 20 W CW tones

Electrical Specifications, Band Reject

Frequency Range, MHz	2360–2395	2360–2395	2360–2395	2360–2395
Attenuation, minimum, dB	30	30	30	30

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WCS-IMFT-AMT-43 | E15V87P72

Block Diagram
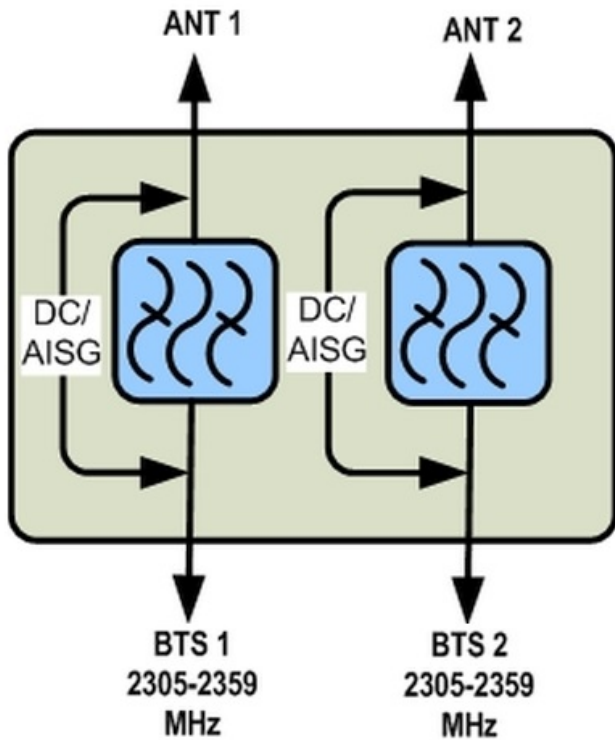
Environmental Specifications

Operating Temperature	-40 °C to +65 °C (-40 °F to +149 °F)
Relative Humidity	Up to 100%
Ingress Protection Test Method	IEC 60529:2001, IP67

Packaging and Weights

Included	Mounting hardware
Mounting Hardware Weight	0.7 kg	1.543 lb
Weight, without mounting hardware	4 kg	8.818 lb

Regulatory Compliance/Certifications

Agency	Classification
CHINA-ROHS	Below maximum concentration value
REACH-SVHC	Compliant as per SVHC revision on www.commscope.com/ProductCompliance
ROHS	Compliant

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UK-ROHS   Compliant

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