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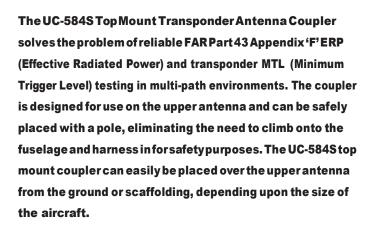
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**Brochure** 

# VIAVI UC-584S

**Top Mount Transponder Antenna Coupler** 

Designed for the top L-Band "shark fin" transponder antenna that can be safely placed with a pole.



The UC-584 provides > 20 dB of attenuation and minimizes the chance that airborne TCAS systems and air traffic controllers will see UUT transponder altitude replies under test conditions. The innovative design of the UC-584S includes an integral positioning slot, ensuring a high level of measurement repeatability is achieved, saving test time. The UC-584S can be connected to the VIAVI IFR6000, IFR6015, and APM-424 flight line test sets or to the VIAVI IFF-45TS bench test set, or to any suitable transponder test set.





#### **Features**

- Effective solution to FAR Part 43Appendix
  'F' ERP and MTL testing in multi-path
  environments
- □ Provides >20 dB of isolation
- Provides shielding for ADS-B performance testing UUT parametric tests
- Mathematical Hook for easy top mount, pole placement
- Dual antenna kitconfiguration
- Rugged design for ramp use
- ☐ Fits most 'Shark Fin' L-Band antennas

#### **Benefits**

- Design eliminates the need to climb onto the aircraft for placement
- □ Reduces false intruders and interference with air traffic control tower¹
- Mathematical High level of measurement repeatability is achieved, saving test time
- Universal design allows coupler to be used with any suitable transponder test set

### **General Specification**

Transponder Antenna Coupler			
Frequencies	1030 MHz, 1090 MHz		
Return Loss	>7.71 dB at both the antenna under test input and coupler input		
Insertion Loss	0.6 dB ±0.5 dB typical		
Repeatability	<1 dB		
Isolation	>20 dB		
Connector	TNC Female		

## **Physical Characteristics**

Dimensions	8.2 in x 5.75 in x 5.25 in (20.9 cm x 14.6 cm 13.3 cm)	
Weight	2 lbs (0.9 kg)	

#### Maximum aircraft antenna size accommodated

UC-584S		
	Width	3.9 in (9.9 cm)
	Thickness	0.25 in. (0.635 cm)
	Height	3.75 in. (9.52 cm)

## **Ordering Information**

**Versions and Options** 

	Order Number	Description
142094		UC-584S Top Mount Transp. Antenna Coupler

This item can be ordered separately or is included with the UC-584 Coupler Kit. See kit options below.

#### **Optional Accessories**

90106	Kit, Antenna Coupler Pole, 8 ft. w/ D Ring		
<b>Kit Contents</b>	Single Antenna	Dual Antenna	

Kit Cont	ents		Coupler Kit (112350)	Coupler Kit (112349)
Item		Part No.	Qty	Qty
	UC-584 L-Band Coupler (w/ clamping)	87431	1	1
	UC-584s L-Band Coupler (top mount)	142094	0	1
	Coaxial Cable (25 ft) (TNC- TNC)	62462	1	1
	Coaxial Cable (25 ft) (TNC- TNC, right angle)	141131	0	1
N	Soft Case	88846	1	1
	ID Card	139823 (single) 139824 (dual)	1	1
	Application Notes	89148	1	1
	Instruction Sheet	92715	1	1

1. Effectiveness of the coupler is dependent on the distance of the ADS-B ground station to your test site and any shielding in your hanger.





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