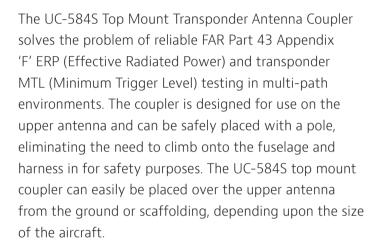
Brochure

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 43 Appendix 'F' ERP and MTL testing in multi-path environments
- Provides >20 dB of isolation
- Provides shielding for ADS-B performance testing UUT parametric tests
- Hook for easy top mount, pole placement
- Dual antenna kit configuration
- 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
- 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		
		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	

Kit Cont	ents		Single Antenna Coupler Kit (112350)	Dual Antenna Coupler Kit (112349)
Item		Part No.	Qty	Qty
COM	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
	Soft Case	AC10K-CC	1	1
	ID Card	139823 (single) 139824 (dual)	1	1
	Application Notes	89148	1	1
	Instruction Sheet	92715	1	1



Contact Us

+1 316 522 4981 avcomm.sales@viavisolutions.com

To reach the VIAVI office nearest you, visit viavisolutions.com/contact.

© 2024 VIAVI Solutions Inc.
Product specifications and descriptions in this document are subject to change without notice.
Patented as described at viavisolutions.com/patents
UC-5845-br-avi-nse-ae
30187490 902 0624