

IFR 6000 Test Set Firmware Information



Antenna Coupler

For optimum performance of Antenna Coupler, download Firmware v. 2.07
from www.aeroflex.com and install in IFR 6000 Test Set.

DIR 10000020889



UC-584 Universal Transponder Antenna Coupler



SPECIFICATIONS

Frequency:	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)
Repeatability:	<1 dB
Isolation:	>20 dB
Connector:	TNC Female
Dimensions:	5.25 in (H), 5.75 in (W), 8.25 in (D) 13.3 cm (H), 14.6 cm (W), 20.9 cm (D)
Weight:	2 lbs. (0.9 kg)

USE

The UC-584 Universal Transponder Antenna Coupler is used for ERP (Effective Radiated Power) and Transponder MTL (Minimum Trigger Level) testing in the high Multipath Ramp and Hangar environments. UC-584 Universal Transponder Antenna Coupler mounts directly over the aircraft Transponder Antenna and is retained in place with a toggle action grip. The UC-584 Universal Transponder Antenna Coupler provides 20 dB of Transponder Antenna isolation, ensuring Airborne TCAS Systems and SSR Ground Stations do not see UUT Transponder altitude replies under test conditions where the air-data system is pressurized to flight levels.

CONTROLS AND CONNECTORS



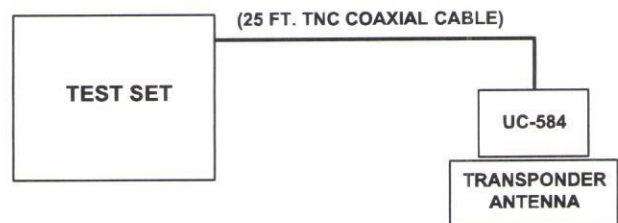
INSTALLATION

STEP 1

Connect the UC-584 to the Aircraft Transponder Antenna.

STEP 2

Connect the UC-584 to the RF I/O Connector on the Test Set using the 25 ft. TNC Coaxial Cable (supplied with the UC-584).



VERIFICATION

Aeroflex has determined that no calibration is required for the UC-584. The following is provided for users that want to verify the UC-584.

Use the TF-1328 to verify loss and VSWR measurements. The TF-1328 is a Dorne Margolin NI50 Aircraft Antenna mounted onto a 9-inch minimum square sheet of aluminum.

The UC-584 isolation level is guaranteed by design and is not tested in production.

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