

PW8484-300

X-Band RHCP High-Gain Isoflux Test Hat

Features

- ✓ Compact size and lightweight
- ✓ Wide operating temperature range

Benefits

- ✓ Commercial off-the-shelf (COTS)
- ✓ Strong and repeatable coupling
- ✓ Easy to mount and dismount
- ✓ Minimal impact on antenna matching
- ✓ No mounting bracket required on the platform
- ✓ RF shielding to protect users and to prevent violation of regulatory limits during testing
- ✓ Consultation services available (link budget, architecture and system design)



Product Overview

Test Hats serve as the perfect companion for testing the link during integration of PlaneWave antennas on the space platform. All of the PlaneWave's space antennas include Test Hat mounting features which eliminate the need for adding extra brackets on the platform.

PlaneWave Test Hats are compact in size, and without significantly impacting antenna matching, they provide strong coupling to the antenna which enables consistent, accurate and reproducible measurements.

Related Products

Part Number	Description
PW8484-100	X-Band RHCP High-Gain Isoflux Antenna
PW2022-103	S-Band RHCP Isoflux Antenna
PW8282-100	X-Band RHCP TX Omni Antenna
PW8282-102	X-Band RHCP TX 2x2 Antenna
PW2022-111	S-Band Dual-CP Wideband Omni Antenna
PW2022-102	S-Band RHCP Dual-Port (TX+RX) Omni Antenna
PW1115-002	Active GNSS L1/E1/L2/L5/E5 Antenna

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Electrical Specifications

Parameter / Condition	Min	Typ	Max	Unit
Operating Frequency	8025		8500	MHz
Polarization		RHCP		
VSWR			2.5:1	
Coupling Factor (Note 1)	24	26	28	dB

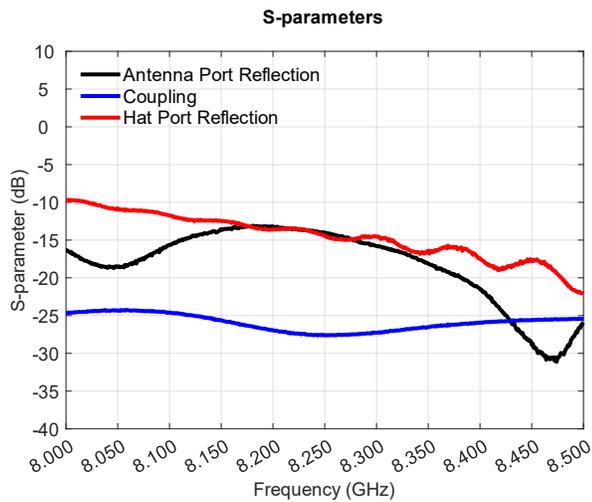
Note 1: Measured with PW2022-102 as shown in figure below

Mechanical Specifications

Parameter / Condition	Value	Unit	Limits
Connector	SMA Female		
Mass	290	g	Max
Compatible Antennas	PW8484-300		

Environmental Specifications

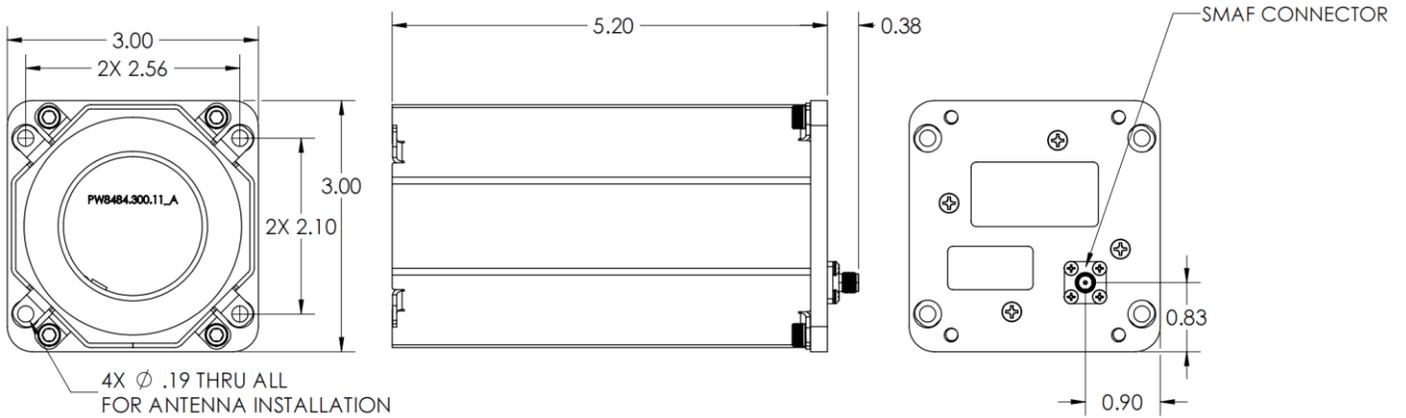
Parameter / Condition	Min	Typ	Max	Unit
Operating Temperature	-70		100	°C



Test Hat + Antenna Assembly, Exploded View



Mechanical Outline



Dimensions shown in inches.

Tolerances - Two Place Decimal: ± 0.010 , Three Place Decimal: ± 0.005

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