

ALTIMETER ANTENNA

MODEL 8201 MICROSTRIP



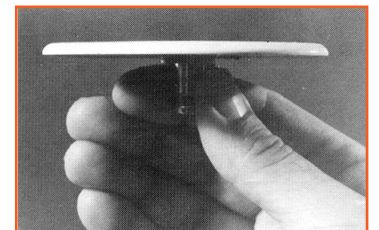
SUPPLYING HIGH PERFORMANCE FLIGHT INSTRUMENTATION, RF/MICROWAVE ASSEMBLIES, POWER AMPLIFIERS, IFF AND DATA ACQUISITION SYSTEMS FOR SEVERE ENVIRONMENTS.

DESCRIPTION

The Ultra Electronics Herley P/N 8201 Radar Altimeter Antennas are designed to be used in conjunction with the Kratos-Lancaster 4500, 4501 and 4502 series Radar Altimeters.

FEATURES

- Frequency range of 4.2 to 4.4 GHz
- High temperature operation
- Small size and light weight
- Ease of installation
- Easily contoured or shaped



THIN PROFILE

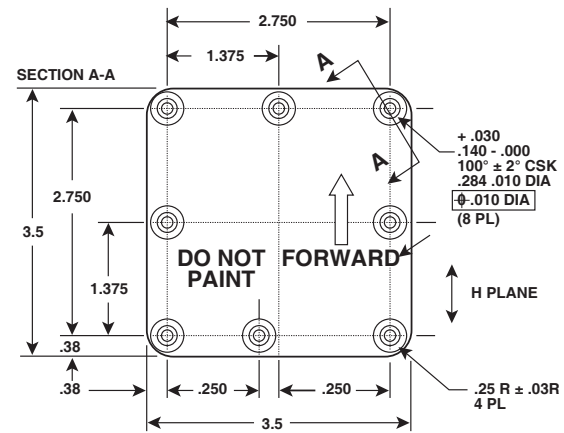
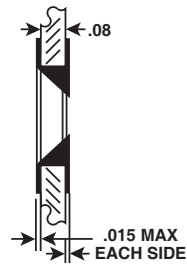
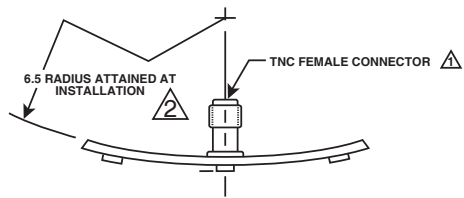
Only one small cutout in the aircraft skin is required for easy installation.



4 Screw Installation
Special Shapes Upon Request

HERLEY

Ultra
ELECTRONICS



ELECTRICAL

- Frequency Range: 4.2 to 4.4 GHz
- VSWR:
 - 1.8:1 Max at 4300 MHz
 - 2.2:1 Max from 4275 to 4325 MHz
 - 3.0:1 Max 4250 to 4275 AND 4325 to 4350 MHz
- Gain: 9 dbi min
- Beamwidth: 30° minimum 3 db full angle for E and H planes
- Isolation: 85 db minimum at 24 inch spacing, center to center
- Power Handling: 1.0 KW peak
- Side Lobes: below 30 dB

ENVIRONMENTAL

- Altitude: 40,000 ft
- Salt Fog: MIL-STD-810 method 509 procedure 1
- Shock: 15 G's
- Vibration: 8.2 grms
- Operating Temperature: 300° F+

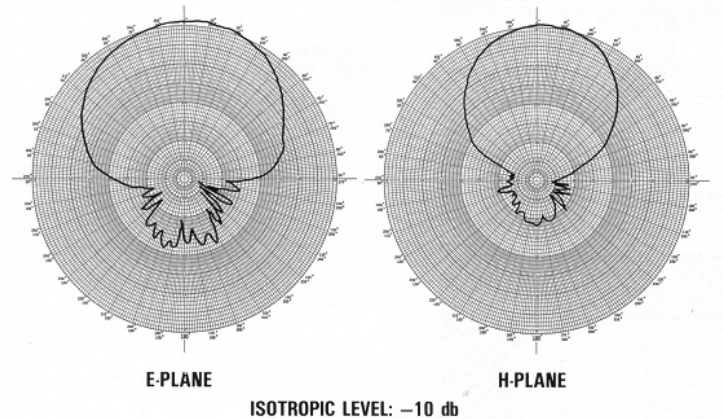
PRODUCT NUMBERS

- 8201-1 - Curved with 6.5" radius as shown in outline
- 8201-2 - Flat mounting surface
- 8201-3 - Curved with 120mm radius

MECHANICAL

- Connector: TNC Female per MIL-C-39012 interface dimensions
- Weight: 8 oz. maximum
- Mounting: Curved 6.5" radius denotes -1 antenna as shown
A flat mounting surface denotes -2 antenna, not shown
Curved 120MM radius denotes -3 antenna, not shown
- Finish: Tin plate back surface per MIL-T-10727. Radome and edge surfaces painted with white polyurethane enamel.

TYPICAL PATTERNS:



making a difference

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