

# Comant CI 193

## VHF NAVIGATION GLIDE SLOPE

### CI 193 ANTENNA

Comant's two-through-hole-mount style glide slope straight dipole antenna with BNC port. Designed for aircraft application that need a glide slope signal. Suitable for internal aircraft mounting only.

### APPLICATIONS

Light Fixed-Wing Single-Engine  
Light Fixed-Wing Multi-Engine  
Heavy Fixed-Wing Single-Engine  
Heavy Fixed-Wing Multi-Engine  
Warranty: 1 year

Always consult your installation shop for best application. See full disclaimer (Page 7) for more information.

### FREQUENCIES COVERED

329 - 335 MHz (UHF - GS)

### SPECIFICATIONS

#### Electrical

|                   |                            |
|-------------------|----------------------------|
| Frequency         | 329-335 MHz (GS)           |
| VSWR              | 2.5:1 Max 329-335 MHz (GS) |
| Polarization      | Horizontal                 |
| Radiation Pattern | Dipole                     |
| Impedance RF      | 50 Ohms Nominal            |
| Power RF          | Receive Only               |
| Gain              | 2.0 dB Nominal             |

#### Mechanical

|          |                                  |
|----------|----------------------------------|
| Weight   | 0.15 lb.                         |
| Height   | 1.5 in.                          |
| Material | Delrin housing / Brass radiators |

Finish Black / Nickel

Connector BNC

#### Environmental

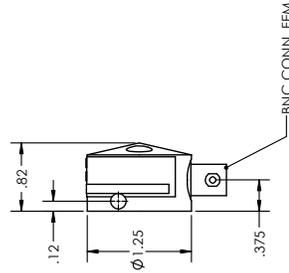
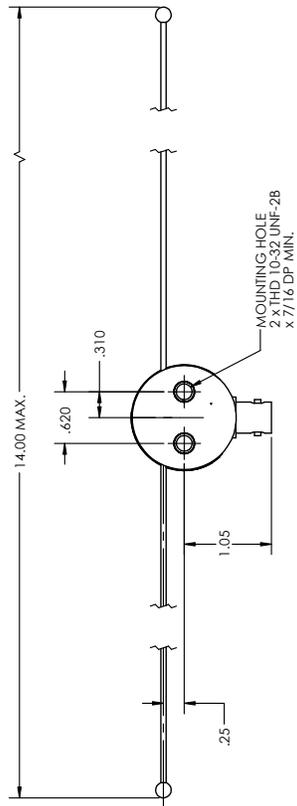
Temperature -55C to +85C

#### Federal Specifications

|                    |        |
|--------------------|--------|
| FAA TSO            | C34c   |
| RTCA MOPS          | DO-192 |
| RTCA Environmental | DO-160 |



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| REVISIONS |  |            |             |
|-----------|--|------------|-------------|
| LTR       | DESCRIPTION  | DATE       | APPROVAL    |
| A         | ADDED NOTES 1,4, 2 AND 3. DIM .12 WAS .375 NOTE 1,1 WAS 329 TO 335 | 9/27/79    | DDM         |
| B         | 13-5/8 WAS 15-5/8, YSWR 5.0:1 WAS 2.0:1                            | 7/01/80    | DDM         |
| C         | 1.4 GAIN: +2.0 NOM WAS +2.5 DB                                     | 1/28/82    | DDM         |
| D         | REF EGN 98-109   | 12/5/89    | DH 12/07/89 |
| E         | REF EGN 93-84  | 11/3/93    | SC 11/8/93  |
| F         | REF EGN 02-225   | 7/31/02    | DH 08/05/02 |
| G         | REF EGN 03-132   | 6/9/03     | DH 06/10/03 |
| H         | REF EGN 14-073   | MN 6/03/14 | DH 6/03/14  |
| J         | REF EGN 17-192   | MN 11/7/17 | DH 11/7/17  |

RECOMMENDED INSTALLATION:

1. ANTENNA MAY BE MOUNTED EITHER IN THE RADOME (NOSE COMPARTMENT) OR INSIDE THE CABIN IN THE WINDSHIELD AREA.
2. LOCATE ANTENNA SYMMETRICAL WITH CENTERLINE OF AIRCRAFT. RADIATORS TO BE AT LEAST 3 INCHES FROM METAL SURFACES.

INSTALLATION DRAWING

NOTES: UNLESS OTHERWISE SPECIFIED.

1. RF CHARACTERISTICS
  - 1.1 FREQUENCY RANGE: 329 TO 335 MHz
  - 1.2 VSWR: 2.5:1 MAX.
  - 1.3 IMPEDANCE: 50 OHMS NOMINAL
  - 1.4 GAIN: +2.0 dB NOMINAL
2. ISO C34C, DO-160, ENV. CAT. D2AL XXXXXXXXXXXX
3. WEIGHT: .15 LB

| QTY REQD                            | ITEM UN          | PART NUMBER       | DESCRIPTION     | MATERIAL / SPECIFICATIONS |
|-------------------------------------|------------------|-------------------|-----------------|---------------------------|
| CONTRACT NO.                        |                  |                   |                 |                           |
| UNLESS OTHERWISE SPECIFIED          |                  |                   |                 |                           |
| DIMENSIONS ARE IN INCHES            |                  |                   |                 |                           |
| TOLERANCES ON DECIMALS              |                  |                   |                 |                           |
| .XX ± .03 .XX ± .010                |                  |                   |                 |                           |
| FRACTIONS ± 1/16 ANGLES ± 1°        |                  |                   |                 |                           |
| MACHINE FINISH 125 ✓ PER ANSI B46.1 |                  |                   |                 |                           |
| REMOVE BURRS AND                    |                  |                   |                 |                           |
| SHARP EDGES .015 MAX                |                  |                   |                 |                           |
| MEET DIMENSIONS BEFORE PLATING      |                  |                   |                 |                           |
| DIMENSIONS ARE PER ASME Y14.5M      |                  |                   |                 |                           |
| MATERIAL:                           |                  |                   |                 |                           |
| DO NOT SCALE DRAWING                |                  |                   |                 |                           |
| APPROVALS                           |                  |                   |                 |                           |
| DATE                                | DATE             | DATE              | DATE            | DATE                      |
| 12/18/77                            | 12/18/77         | 10/1/79           | 10/1/79         | 10/1/79                   |
| DRAWN DAVEY                         | CHECK D. MADARAS | ENGR J. R. TORRES | APPD H. SUMMERS |                           |
| PARTS LIST                          |                  |                   |                 |                           |
| Comant Industries, Inc.             |                  |                   |                 |                           |
| ANTENNA-GLIDE SLOPE                 |                  |                   |                 |                           |
| DWG NO                              | CODE IDENT       | DWG NO            | REV.            |                           |
| C 51351                             | CI 193           |                   | J               |                           |
| SCALE: 1:1 CAD FILE: --             |                  |                   |                 |                           |
| SHEET: 1 OF 1                       |                  |                   |                 |                           |

ASSY DWG. C19301