

HAVEQUICK/1PPS Distribution Amplifier (HQS)



Brandywine Communication's Havequick/1PPS Distribution Amplifier (HQS) is a small rugged, powered Havequick/1PPS distribution module mounted in a 4" x 4" x 2.5" environmentally secure enclosure. The HQS can provide an MTBF up to 1 million hours depending on configuration.

The HQS was developed to facilitate long cable runs of both 1PPS and Have Quick signals for ships or aircraft requiring these timing reference signals at multiple locations. With the tested, ruggedized enclosure the HQS can be placed in difficult environments and difficult to reach places on ships and aircraft. The unit may be configured for single ended or differential signals as required for the application (factory configured). Various power options are also available upon request. Designed for "fit and forget" operation, the compact, reliable module provides an elegant solution for distribution of the timing references from an embedded military GPS receiver.

brandywine communications

SPECIFICATIONS

Signal Input:

Connector Type: D38999/20WB35PN

1PPS:

Amplitude: 0-10V per ICD-GPS-060

Impedance: 50ohm

Have Quick:

Amplitude: 0-5V per ICD-GPS-060

Impedance: 2kohm

Signal Output :

Connector Type: D38999/20WB35SN

1PPS:

No of Outputs: 3

Amplitude: 0-10V per ICD-GPS-060

Impedance: 50ohm or low Z

Have Quick:

No of Outputs: 3

Amplitude: 0-5V per ICD-GPS-060

Impedance: 2kohm

Power Input:

Connector Type: D38999/20WA98PN

Power Option 1

145 VDC to 162 VDC or

Power Option 2

15 VDC to 36 VDC

Power Consumption: <5 Watts.

Size: 3.94"x3.94"x2.36" w/o connectors

3.94"x5.8"x2.36" incl. connectors

Reliability

MTBF: >1,000,000 hours

Environmental

EMI: MIL-STD-461

CE102, CS101, CS114, CS116, RE101,

RE102, RS101, RS103

Relative Humidity: 95% relative humidity,
non-condensing.

Operating Temp.: 0 to +50 °C

Non-Operating Temp.: -40 to +85 °C.

Air Pressure: to +30,000 feet.

Fungus & Salt/Fog:

Conformally coated.

Settling Dust:

Base material coatings and surface
treatments resilient to erosion.

Operational Vibration:

Shipboard Type I MIL-STD-167-1A .

Transportation Vibration:

MIL-STD-810F Method 514, Procedure I
Categories 4, 7, 8, and 10.

Shock:

MIL-STD-810F [3] Method 516

20g/15ms saw tooth pulse

Ordering Information

001-0297 MODULE, HQ DISTR., 2 WAY, 162VDC

001-0282 MODULE, HQ/1PPS DISTR., 6 WY, 15-36V