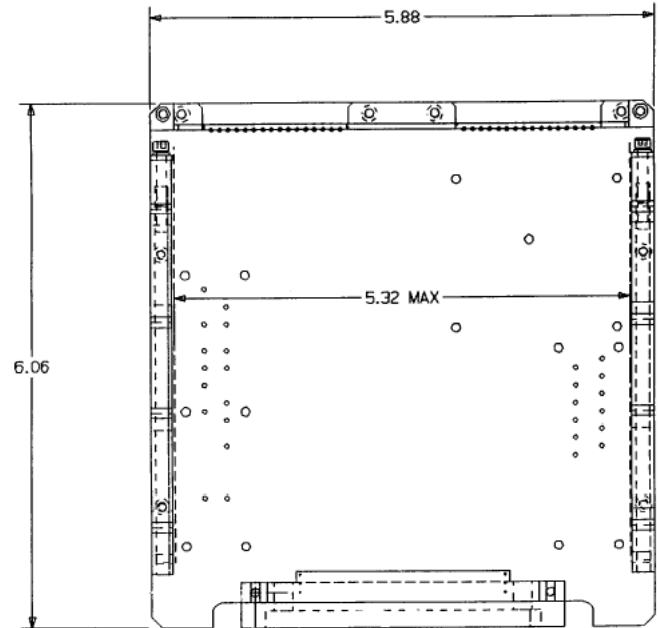
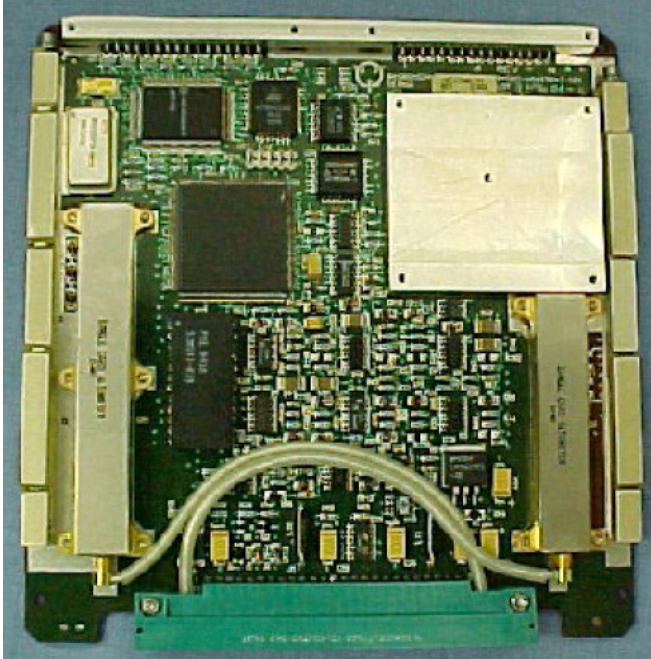


Radar Altimeter Module

Low cost, high performance single card altimeter for use in integrated systems



Honeywell redefines leading edge radar altimetry with the introduction of its HG7808 altimeter module. This unique approach, provides the entire low-cost radar altimeter on a single (SEM-E short) circuit card.

The HG7808 Radar Altimeter Module is highly integrated through the use of ASIC technology. Significant cost reductions over previous designs have also been realized due to hands-off automated calibration and production processes and a major reduction in parts count.

The single card module was optimized for use as an embedded function added to open/expansion card slots of existing systems such as Honeywell's H-764G Embedded GPS/INS (EGI) or other integrated systems. The standard (SEM-E short) circuit card configuration and flexible I/O make it perfect for use in other customer-defined installations/applications as well.

Honeywell's HG7808 has been selected for the U.S. Air Force T-38 Avionics Upgrade Program and various F-5 upgrades worldwide. The HG7808 high performance, low-cost design with outstanding MTBF redefines leading edge radar altimetry.

HG7808 Radar Altimeter Module Specifications	
Weight	< 1 pound
Size	5.88" x 6.06" (SEM-E short)
Altitude	0 to 8,000 feet
Accuracy	± 2 feet or 2%
Maneuver Angles	±45° up to 5,000 ft.* ±30° up to 8,000 ft.*
Frequency	C-Band, 4.3 GHz
RF Power	Power managed, +30 dBm peak
Input Power	8 W nominal, +5, ±15 Vdc
Cooling Requirements	Passive
Maintainability	Start up, Periodic and Initiated BIT
Output	Command/Response
Interface	RS-422/485 UART format, Arinc 429 optional, RS-232 optional
Track Rate	± 2,000 fps
Altitude Update	33 Hz
Environmental Qualification	MIL-STD-810D
EMI Qualification	ML-STD-461D
Predicted MTBF	> 25,000 hours
LPI Features	PRN coded, Power management
ECCM Features	High jam immunity
Installation	H-764G Embedded GPS/INS, BG1232 Integrated Flight Management Unit, Customer defined

*Nominal antennas, typical terrain - 3dB cable losses

Honeywell — a leader in radar altimetry systems

With more than 35 years experience, Honeywell has developed and produced more than 90,000 radar altimeter systems. Today, they are employed on missiles and aircraft operated by all the major U.S. armed services, NASA, the Coast Guard and on vehicles owned by more than 20 allied foreign governments in Canada, Europe, the Middle East, South America and the Pacific region.

Our total output of radar altimeter systems exceeds that of all of our competitors combined.

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