

# HPA-7450

Inmarsat Satcom High Power Amplifier

# COBHAM

## Data Sheet

The most important thing we build is trust

### Description

The HPA is a 2 MCU, linear, RF power amplifier. It amplifies the transmit RF signal generated by the SDU to the required power level to communicate with the satellite. Secondary functions of the HPA include providing regulated +28 VDC power to the antenna via the SDU and monitoring the DLNA BITE. The HPA-7450 has the same connector pin-outs and the same form and fit as the HPA-7400. The HPAs are therefore interchangeable without the need for any aircraft or system wiring changes.

### Features

- The HPA can support multichannel SwiftBroadband operation with HGA and IGA antennas
- Meets Inmarsat (3rd Order) intermodulation specification of -38.7dBc
- Status LEDs provide visual output of HPA and DLNA Status
- Qualified for installation in non-pressurized and non-temperature controlled environments

### Technical Specifications

#### Dimensions

Length: 343.7 mm (13.5")  
Width: 194.0 mm (7.6")  
Height: 61.0 mm (2.4")  
Weight: 4.2 kg (9.2 lbs)

#### Interfaces

ARINC 600 Connector:  
RF Input: TNC Female  
RF Output: TNC Female  
Status and Control

#### Power Consumption

Maximum = 205 Watts at 28 Vdc

#### Qualification

DO-160E  
[F2X]BBB[U2(F,F1)S(LMB)]EYXXFXZ[A/B]AR[CW]  
[RR]M[A3E3X]XXAC

#### Inmarsat approvals

Type Approval: Class 6 B6CH01  
27 April 2009  
Class 7 B7CH01  
26 August 2009

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