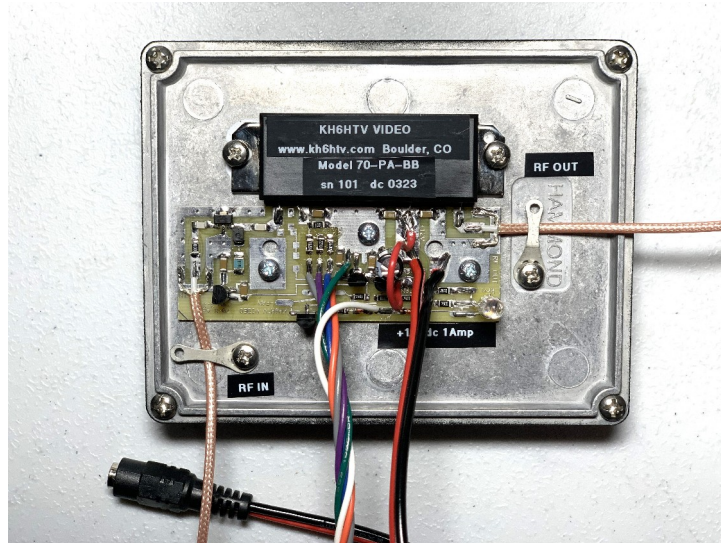




Model 70-PA-BB 70 cm, 1 Watt DATV, RF LINEAR POWER AMPLIFIER



The **KH6HTV-VIDEO Model 70-PA-BB, RF Power Amplifier** is a special version of our Model 70-7B built as a "Bare-Bones" version intended for use in small amateur balloons. It is intended to be used as a Digital Amateur Television, 70 cm transmitter final amplifier. It is supplied with a minimal size heat sink. Or it can be mounted on the heat sink of your choice. The dc operating current and rf output power are set lower than available from the 70-7B. It is a Class A-B amplifier designed for linear service. It can produce a 1 Watt (+30dBm) (average), high-definition (1080p), digital TV signal. The rf power output can be lowered -2 dB or -5 dB for further reduced DC current draw.

DATV RF Output Power: +30dBm, +28dBm, or +25dBm, (average power), selectable
 S21, Gain: 47, 45, or 42dB, flat ± 1.5 dB, 420-450 MHz
 DC Supply Voltage: +12 Vdc nominal. Operates from +10 to +13.8 Vdc
 DC Current Draw @ 12Vdc: 1.0 Amp, 750 mA, or 600 mA
 Duty Cycle: 100 %, for 1 W DATV output
 RF Connectors: SMA plug, 4" RG-316/U coax pigtailed
 Accessories Supplied: Instruction Manual and Test Report
 Supplied Heat Sink: 4 1/2" x 3 1/2" die cast metal plate. Note: When operated at ambient room temp. in still air and in high power mode with 1 W rf output, the max. heat sink temperature is about 70° C. With this small heat sink, do NOT attempt to run the amplifier at higher rf output powers.
 Warranty: Guaranteed to work with supplied heat sink on an open bench at ambient room temperature. No further guarantees for use with other heat sinks, nor in other environments. Buyer must assume responsibility for determining if it will work in his particular application.

Type Acceptance: *This linear amplifier is not FCC type accepted. Therefore, the use of this amplifier is only legal in the USA, amateur radio, 70 cm band (420 - 450 MHz). Owners and operators of this amplifier must be licensed amateur radio operators.*

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