

# HCA SERIES

MODELS HCA-3051 : HCA-3051RK : HCA-3086RP : HCA-3086RK : HCA-5051



MODEL HCA-3051



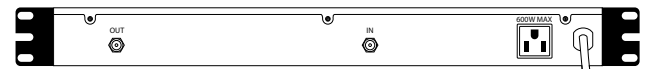
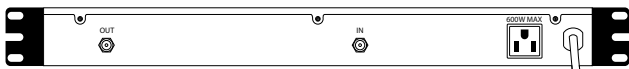
MODEL HCA-3086RP



MODEL HCA-3051RK



MODEL HCA-3086RK



MODEL HCA-5051

## FEATURES

- **Low-Distortion CATV Hybrid Amplifiers**
- **High-Output**
- **550 and 860 MHz Models**
- **Adjustable Gain & Slope**
- **High Gain (30 or 50 dB)**
- **Return Path Bi-Directional (Select Models)**
- **Larger Heatsink Case**

### HCA SERIES

The **HCA series** amplifiers incorporate high quality push-pull, hybrid modules to provide the highest output and lowest distortion levels possible. A regulated power supply, along with an extra-large heatsink case, provide the reliability required for operation in even the most extreme environments. The **HCA series** is available in 30 or 50 dB gain, 550 or 860 MHz bandwidth and a 120 or 220VAC power supply (220VAC optional). Rack-mounted models are also available.

# HCA SERIES

## SPECIFICATIONS

FORWARD PATH	HCA-3051*	HCA-5051	HCA-3086RP	HCA-3086RK
Frequency	54 - 550 MHz	54 - 550 MHz	54 - 860 MHz	54 - 860 MHz
Gain	30 dB	50 dB	30 dB	30 dB
Gain Adjust Range	18 dB	18 dB	18 dB	18 dB
Maximum Input	15 dBmV (77 Ch.)	-5 dBmV **	11 dBmV (134 Ch.)	11 dBmV (134 Ch.)
Maximum Output	45 dBmV (77 Ch.)	45 dBmV (77 Ch.)	41 dBmV (134 Ch.)	41 dBmV (134 Ch.)
Slope	15 dB (Adj.)	12 dB (Adj.)	15 dB (Adj.)	15 dB (Adj.)
Flatness	±1 dB	±1 dB	±1 dB	±1 dB
Noise Figure	6.5 dB	6.5 dB	6.5 dB	6.5 dB
Input Return Loss (Min.)	12 dB	12 dB	12 dB	12 dB
Output Return Loss (Min.)	12 dB	12 dB	12 dB	12 dB
Cross Modulation (XMOD)	-58 dB	-58 dB	-58 dB	-58 dB
Composite Second Order (CSO)	-75 dB	-75 dB	-75 dB	-75 dB
Composite Triple Beat (CTB)	-60 dB	-60 dB	-60 dB	-60 dB
RETURN PATH				
Frequency	-	-	5 - 42 MHz	-
Gain	-	-	Passive (-2.5 dB)	-
GENERAL				
Power Requirements	117VAC, 60Hz, 8 W	117VAC, 60Hz, 8 W	117VAC, 60Hz, 8 W	117VAC, 60Hz, 8 W
Operating Temperature	-20° to 60° Celsius	-10° to 50° Celsius	-20° to 60° Celsius	-20° to 60° Celsius
Dimensions	8" x 5.375" x 2"	7.75" x 3" x 1.75"	8" x 3" x 1.75"	17" x 3" x 1.75"
Weight	3.5 lbs.	2.55 lbs.	2.55 lbs.	4.35 lbs.

**NOTE: All specifications typical unless otherwise noted**

\* Rack-mount model available.

\*\* Maximum input specified at full channel capacity.  
Maximum input increases as channel load decreases.