

## 40db Bi-Directional Distribution Amplifier 54-1000Mhz COAX CATV QAM ATSC Analog RF

# H-RF-AMP-40

## INTRODUCTION

The Thor Broadcast Compact 40db amplifier makes an excellent distribution system amplifier for heavily loaded MDU and broadband CATV and SMATV systems.

Because of its extremely low-noise figure and low distortion, the H-RF-AMP-40 is ideally suited for use in larger networks where amplifier cascading is required.

CATV RF QAM over coax amplification forward 54-1000mhz and Return path 5-42Mhz

The 40dB gain from off air antenna ATSC / DVB-T / ISDB-T

Analog RF - NTSC / PAL video amplification

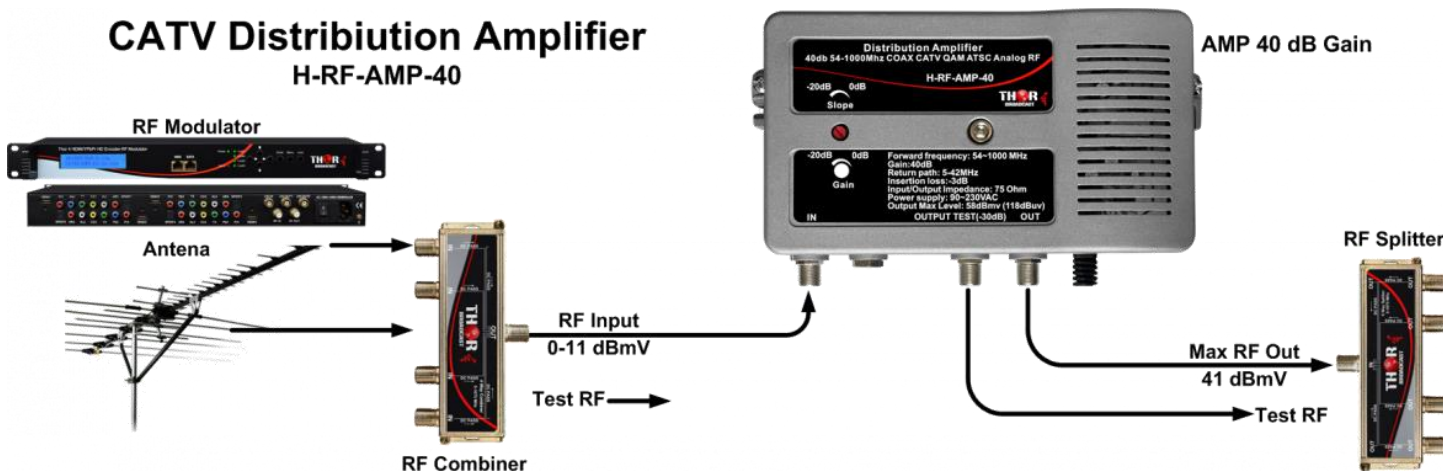
## FEATURES

- High output level 40dB
- High Voltage Surge Protection
- Broadband 54-1000 MHz frequency range (Channels CATV 2-158)
- High Return Loss against interference
- Power LED indicator
- Optimum for Trunk Distribution
- Hybrid module design to obtain excellent quality
- Adjustable gain and slope for fine tuning systems
- -20 dB test ports for easy trouble shooting
- 60 dBmV high output level
- 40dB gain for optimal carrier-to-noise ratio and superior picture quality
- $\pm 0.5\text{dB}$  flatness across band provides low distortion and excellent frequency response
- Employs state-of-the art hybrid push-pull technology for distortion-free audio-video quality
- Adjustable slope and gain controls for easy system balancing
- Easy-access controls and lowloss (-20dB) test point enable simplified setup and performance monitoring
- Shielded enclosure provides over 95dB RFI shielding performance reducing leakage and ingress
- Built-in lightning and line voltage surge protection protects the unit from damage

## Model Selection

H-RF-AMP-40

## DRAWING



# SPECIFICATION

Bandwidth-CA-30/1000	54 ~ 1000MHz
Bandwidth-CA-30/550	54 ~ 550MHz
Gain (FWD) 54~1000 MHz	30dB
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Max. Output (158 ch.) (CA-30/1000)	40 dBmV
Max. Output (82 ch.) (CA-30/550)	43 dBmV
Flatness	0.5dB
Noise Figure (FWD) CA-30/1000	5dB
Noise Figure (FWD) CA30/550	4.5dB
Composite Second Order (FWD)	70dB
Composite Triple Beat (FWD)	61dB
Input Test Point Loss	20dB
Power Input	115VDC
Power Required	4Watt
Dimensions	8" L) x 2.75" (D) x 4.5" (H)
Weight	2.3 lbs.
Input Frequency Range	50~860 MHz
Output Max Level	60 dBmV
Maximum Gain	32 dB
Gain Control Range	0 ~ -20dB
Slope Control Range	0 ~ -20dB
Noise Figure	7.5 dB
Flatness	+/-2 dB
Return Loss	18 dB
Input / Output Impedance	75 ohm
Input / Output test point	-20 dB
Connectors	All "F" type female
Power requirements	AC 110V or AC 220V
Power Consumption	10 W
Operating Temperature	-10 ~ 60 °C