

Data Sheet: H-RF-AMP-40-RM

40db CATV RF Amplifier

Forward 54-1000MHz - Return 5-42MHz



This 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-RM is ideally suited for use in larger networks where amplifier cascading is required.

Application

1. CATV RF QAM over coax amplification
2. The 40dB gain from off air antenna ATSC / DVB-T / ISDB-T
3. Analog RF - NTSC / PAL video amplification

Features

1. High output level 40 dB
2. High Voltage Surge Protection
3. Broadband 54-1000MHz frequency range (Channels CATV 2-158)
4. High Return Loss against interference
5. Power LED indicator
6. Optimum for Trunk Distribution
7. Hybrid module design to obtain excellent quality
8. Adjustable gain and slope for fine tuning systems
9. -20 dB test ports for easy trouble shooting
10. 60 dBmV high output level
11. 40 dB gain for optimal carrier-to-noise ratio and superior picture quality
12. ± 0.5 dB flatness across band provides low distortion and excellent frequency response
13. Employs state-of-the art hybrid push-pull technology for distortion-free audio-video quality
14. Adjustable slope and gain controls for easy system balancing
15. Easy-access controls and lowloss (-20dB) test point enable simplified setup and performance monitoring
16. Shielded enclosure provides over 95dB RFI shielding performance reducing leakage and ingress
17. Built-in lightning and line voltage surge protection protects the unit from damage

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

Connection Diagram

CATV Distribution Amplifier - H-RF-AMP-40-RM

