

RF DISTRIBUTION AMPLIFIER

MC-SAMP-35DB

Professional House Amplifier with Return Path, 35 dB Gain and 47–1006 MHz Range



Professional Product Overview
 Low-noise coaxial house and apartment distribution amplifier designed for compact CATV, MATV and multi-dwelling RF networks. The unit provides 35 dB forward gain, adjustable level control and return-path capability for reliable in-building signal distribution.

35 dB Gain
 Forward path amplification

47–1006 MHz
 Wide CATV frequency range

24/30 dB Return
 Return path gain @ 60 MHz

0–15 dB Control
 Attenuation & equalisation

Low-noise house amplifier for compact CATV, MATV and multi-dwelling RF distribution networks

Description & Key Features

DESCRIPTION

The MC-SAMP-35DB is a professional coaxial house amplifier developed for small and medium CATV, MATV and apartment distribution networks. It is designed to reinforce RF signal levels across in-building coaxial infrastructure while maintaining low-noise performance and stable channel quality.

With 35 dB gain at 1006 MHz, adjustable attenuation, interstage attenuation and equalisation control, the unit allows installers to fine-tune output levels according to site requirements. Its return-path capability supports two-way network applications and improves flexibility in modern distribution layouts.

The compact IP20 Class II housing, integrated RF test points and practical mechanical format make the amplifier suitable for technical cabinets, risers and local distribution points in residential and commercial installations.

01 Low-Noise RF Amplification Designed for stable CATV and MATV distribution in smaller house and apartment networks.	02 35 dB Forward Gain Provides 35 dB gain at 1006 MHz for reliable signal level reinforcement.
03 Wide Frequency Coverage Supports 47–1006 MHz / 85–1006 MHz frequency operation for flexible network design.	04 Return Path Capability Includes return-path gain performance at 60 MHz for two-way distribution applications.
05 Adjustable Signal Control Supports 0–15 dB attenuation and 0–15 dB equalisation for precise field adjustment.	06 Compact Installation Format IP20 Class II housing with -20 dB input and output RF test points for commissioning support.

Application Note

A compact distribution amplifier for residential buildings, small hotels, apartments and local MATV/CATV networks where stable coaxial RF distribution and practical signal adjustment are required.

Technical Specifications

CHARACTERISTICS

Output Level CSO @ 60 dB IMD (42 ch), Slope 0/7	103 / 105 dB μ V
Output Level CTB @ 60 dB IMD (42 ch), Slope 0/7 dB	103 / 105 dB μ V
Output Level Return IMD 2 / IMD 3 @ 60 dB	96 / 117 dB μ V

FREQUENCY RANGE

Frequency Range	47–1006 / 85–1006 MHz
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GAIN & NOISE

Gain	35 dB @ 1006 MHz
Gain Return @ 60 MHz	24 / 30 dB
Noise Figure	7 dB
Noise Figure Return Path	5 dB

ADJUSTMENT & ELECTRICAL

Attenuation	0–15 dB
Interstage Attenuation	0 / 3 / 6 / 9 dB
Equalisation	0–15 dB
Linearity	\pm 1.0 dB

Technical Specifications

OPERATIONAL & CONNECTORS	
Housing Protection Class	IP20
Insulation Class	Class II
Input Connector	Not specified in source data
Output Connector	Not specified in source data
RF Test Point Input	-20 dB, bi-directional
RF Test Point Output	-20 dB, directional

MECHANICAL & PACKAGING	
Product Dimensions	170(W) x 65(H) x 100(D) mm
Net Weight	0.715 kg
Total Weight	0.806 kg
Tara Weight	0.091 kg
Packaging Dimensions	0.130(D) x 0.070(H) x 0.230(W) m
Packaging Volume	0.002 m ³
Weight TB(D)	0.65 kg

