

DH6873 – HOUSE CONNECTION AMPLIFIER 39 DB / 29 DB



Features

- 1 GHz bandwidth
- NE-4 amplifier
- Compact housing
- Input and output test point
- Downstream gain 39 dB, upstream gain 29 dB

Technical specifications

Parameter	Specification	Note
Downstream signal path		
Frequency range	85...1006 MHz	
Return loss (min)	Cat C (14 dB @ 40 MHz -1.5 dB / oct.)	1
Gain	> 39 dB	
Input attenuator control range	0...15 dB	2
Input equalizer control range	0...15 dB	3
Mid-stage attenuator	0 / 6 dB	
Mid-stage slope	0 / 7 dB	4
Flatness	± 0.8 dB	
Noise figure	6.0 dB	5
CTB (41 channels)	105 dBµV	6
CSO (41 channels)	105 dBµV	6

Upstream signal path

Frequency range	5...65 MHz	
Return loss (min)	Cat C (14 dB)	1
Gain	> 29 dB	
Input attenuator control range	0...15 dB	2
Mid-stage slope	0 / 3 dB	7
Flatness	± 0.5 dB	8
Noise figure	5.0 dB	9
Return path load	Mittlere Last 64 QAM	
Output level, DIN 45004B	119.0 dB μ V	10
BER	< 1 x 10 ⁻⁸	11
MER	> 35 dB	11
Optional:		
Mid-stage attenuator control range	0...6 dB	2

General

Input test point (external)	- 20 dB	12
Output test point (external)	- 20 dB	12
Supply voltage (AC)	207...255 V	
Power consumption	11.0 W	
Input / output / test point connectors	F female	
Dimensions (l x w x h)	178 (213) x 100 (110) x 58 mm	
Weight	1.3 kg	
Operation temperature	-20° ... +55° C	
Class of enclosure	IP20	
EMC	EN 60728-2	
Screening	Class A	
Overvoltage protection (surge)	> 4.5 kV	13
ESD protection	2 kV	

Notes

- 1) Typical Cat B, 18 dB @ 40 MHz, -1.5 dB per octave.
- 2) Attenuation is set with plug-in attenuating devices in 1 dB steps
- 3) The pivot point is at 1006 MHz, set with plug-in attenuating devices in 1 dB steps.
- 4) Slope is defined between 85 and 1006 MHz, set to 0 or 7 dB
- 5) Typical value. Maximum 7.0 dB
- 6) According to EN 60728-3. Amplifier output flat or 7 dB cable equivalent sloped. Typical values at room temperature. Can be used in system calculations.
- 7) This slope is defined between 5...65 MHz
- 8) Typical value. Maximum ± 0.8 dB
- 9) Typical value. Maximum 6.0 dB
- 10) Typical value.
- 11) Output level is 120 dB μ V. US is loaded with 2 pcs of 6.4 MHz 64QAM channels (Mittlere Last, KDG 1TS140) and the measurement is done on a 3.2 MHz 64QAM channel.
- 12) Output test point is a directional coupler with ± 1.0 dB tolerance. It can be used as an injection point for a return channel test signal.

Input test point is bidirectional with ± 2.5 dB tolerance. It can be used as the output test point for the return signal.
- 13) According to EN 60728-3

Block Diagram

