PRODUCT FAMILY	DESCRIPTION
DH AND HOME AMPLIFIERS	DH HOUSE CONNECTION AMPLIFIERS

FEATURES

- >> 1 GHz Bandwidth
- >> NE-4 amplifier
- >> Compact housing
- >> Input and Output test point
- >> Downstream gain 41 dB, upstream gain 31 dB
- >> Variable 0 … 18dB attenuator for downstream and upstream
- >> Variable 0 … 18dB input equalizer for downstream

SPECIFICATIONS

Downstream signal path	
Frequency range	85 ... 1006 MHz
Return loss	18 dB (1)
Gain @ 1006 MHz	41 dB ± 1 dB
Input attenuator control range	0 ... 18 dB (2)
Input equalizer control range	0 ... 18 dB (3)
Interstage attenuator	0 / 6 dB (4)
Interstage slope	0 / 7 dB (4) + (5)
Flatness	±0.8 dB
Noise Figure	6.0 dB (6)
CTB	107 dBµV (7)
CSO	107 dBµV (7)
Upstream signal path	
Frequency range	5 ... 65 MHz
Return loss	18 dB (1) + (16)
Gain @ 65 MHz	31 dB ± 1 dB
Input attenuator control range	0 ... 18 dB (2)
Output slope	0 / 3 / 6 / 9 dB (4) + (8)
Flatness	±0.5 dB (9)
Noise Figure	6.0 dB (10)

Return path load	Mittlere Last 64 QAM
Output level, DIN 45004B	120 dBµV (11)

GENERAL SPECIFICATIONS	
Input Test point (external)	- 20 dB (12)
Output Test point (external)	- 20 dB (13)
Supply voltage (AC)	207 ... 255 V
Power Consumption	10.5 W
Input / Output test point connectors	F female
Dimensions (h 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)	2 kV (14)
ESD protection	2 kV (15)

NOTES:

(1) The limiting curve is defined at 40 MHz -1.5 dB/octave

(2) Attenuation is set with a 0 ... 18 dB variable attenuator

(3) The pivot point is at 1006 MHz. Slope is set with a 0 ... 18 dB variable attenuator

(4) Switchable by jumper

(5) Slope is defined between 85 and 1006 MHz, set to 0 or 7 dB

(6) Typical value. Maximum 7.0 dB

(7) Output level flat, 41 Ch. CENELEC

(8) This slope is defined between 5…65 MHz

(9) Typical value. Maximum ± 0.8 dB

(10) Typical value. Maximum 7.0 dB

(11) Typical value

(12) Input test point is bidirectional with ± 2 dB tolerance. It can be used as the output test point for the return signal

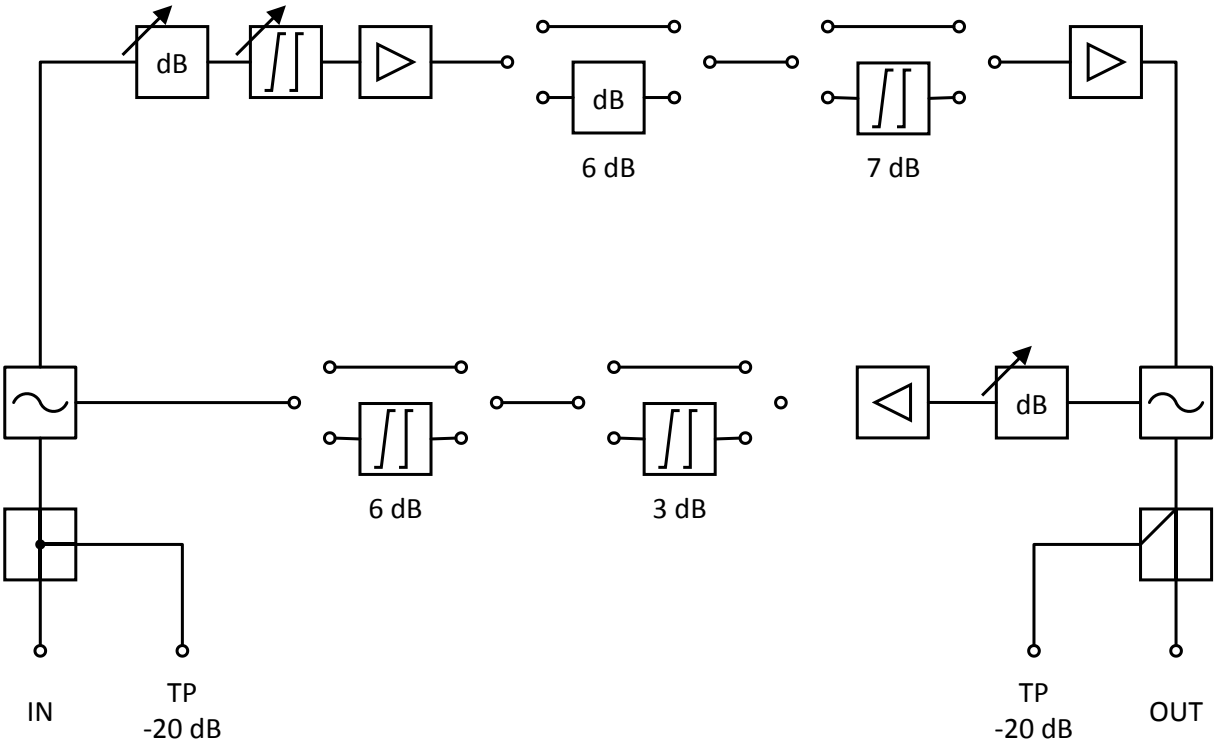
(13) Output test point is a directional coupler with ± 1.0 dB tolerance. It can be used as an injection point for a return channel test signal

(14) According to EN 60728-3

(15) EN 61000-4-2, contact discharge to enclosure and RF ports

(16) Between 5 and 10 MHz, > 16 dB

BLOCK DIAGRAM



ORDERING INFORMATION

DH6908VA	Amplifier