

**DH1660 HOUSE CONNECTION AMPLIFIER**



**Technical specifications**

Parameter	Specification	Note
<b>Downstream signal path</b>		
Frequency range	85...1000 MHz	
Return loss	18 dB@40 MHz -1.5 dB / oct.	
Gain	31.0 dB	
Input attenuator control range	0...-18 dB	
Input equaliser control range	0...18 dB	1)
Mid-stage slope	3 dB	2)
Flatness	± 0.75 dB	
Noise figure	6.0 dB	3)
CTB 42 channels	101.0 dBμV	4)
CSO 42 channels	101.0 dBμV	4)
XMOD 42 channels	97.0 dBμV	4)
Output level DIN45004B	118.0 dBμV	5)
<b>Upstream signal path</b>		
Frequency range	5...65 MHz	
Return loss	18 dB	
Gain	25 dB	
Gain control range	0...-18 dB	
Slope	2.0 dB	6)
Flatness	± 0.5 dB	
Noise figure	6.0 dB	3)
Output level, DIN 45004B	120.0 dBμV	5)
Output level, 2 <sup>nd</sup> order distortion - 60 dB	115.0 dBμV	5)

**General**

Supply voltage	207...255 VAC	
Power consumption	7.0 W	
Input / Output connectors	F- female	
Dimensions	177(197) x 88(99) x 58	
Weight	0.8 kg	
Operating temp	-20...+55 °C	
Class of enclosure	IP 20	
EMC	IEC60728-2	
ESD (RF ports)	2 kV	7)
Surge (RF ports)	4 kV	8)

**Notes**

- 1) The pivot point is at 1000 MHz.
- 2) This fixed slope is defined between 85...1000 MHz.
- 3) Typical value. Guaranteed value is 1.0 dB worse.
- 4) According to EN50083-3. Amplifier output was 3 dB cable equivalent sloped. All results are typical values in room temperature, which can be used in system calculations. XMOD is measured at the lowest channel.
- 5) Typical value.
- 6) This fixed slope is defined between 5...65 MHz.
- 7) EN61000-4-2, contact discharge to enclosure and RF-ports.
- 8) EN61000-4-5, 1.2 / 50 µs pulse to RF-ports.

**Block diagram**

