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Downstream signal path Frequency range 85 ... 1006 MHz 18 dB ⁽¹⁾ Return loss Gain @ 1006 MHz 39 dB ± 1 dB Input attenuator control range 0 ... 18 dB ⁽²⁾ Input equalizer control range 0 ... 18 dB ⁽³⁾ 0 / 7 dB ^{(4) + (5)} Interstage slope Flatness ±0.8 dB 6.0 dB ⁽⁶⁾ Noise Figure СТВ 100 dBµV ⁽⁷⁾ CSO 100 dBµV ⁽⁷⁾ **Upstream signal path** Frequency range 5 ... 65 MHz 18 dB ⁽¹⁾ + ⁽¹⁶⁾ Return loss $29 \text{ dB} \pm 1 \text{ dB}$ Gain @ 65 MHz Input attenuator control range 0 ... 18 dB ⁽²⁾ 0 / 3 / 6 / 9 dB ^{(4) + (8)} Output slope Flatness $\pm 0.5 \, dB^{(9)}$ Noise Figure 6.0 dB ⁽¹⁰⁾



SPECIFICATIONS

Return path load	Mittlere Last 64 QAM
Output level, DIN 45004B	120 dBµV ⁽¹¹⁾
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GENERAL SPECIFICATIONS	
Input Test point (external)	- 20 dB ⁽¹²⁾
Output Test point (external)	- 20 dB ⁽¹³⁾

207 255 V
7 W
F female
178 (213) x 100 (110) x 58 mm
1.3 kg
-20° +55°C
IP20
EN 60728-2
Class A
2 kV ⁽¹⁴⁾
2 kV ⁽¹⁵⁾

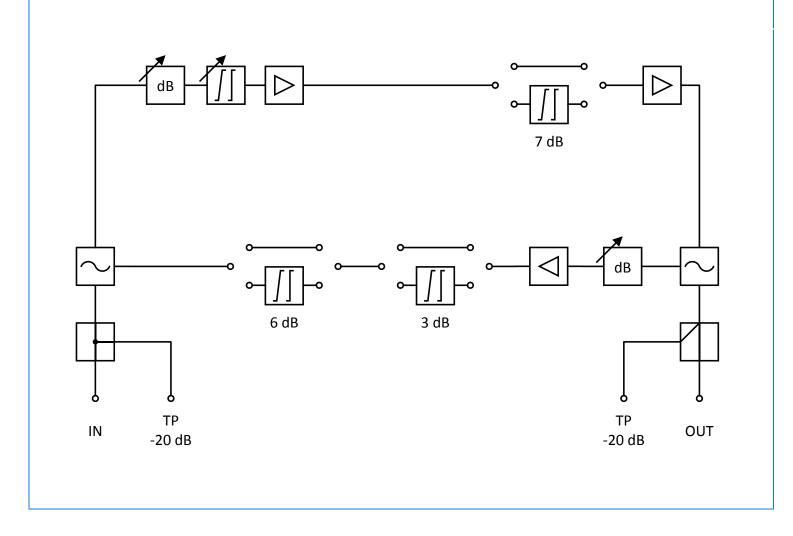
NOTES:

- (1) The limiting curve is defined at 40 MHz -1.5 dB/octave
- (2) Attenuation is set with a 0 \dots 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 \pm 0.8 dB
- (10) Typical value. Maximum 7.0 dB
- (11) Typical value
- (12) Input test point is bidirectional with \pm 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 \pm 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

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BLOCK DIAGRAM



ORDERING INFORMATION

DH6868VA

Amplifier

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