



Catalog Amplifiers 2018



Perfect technology
for highest demands

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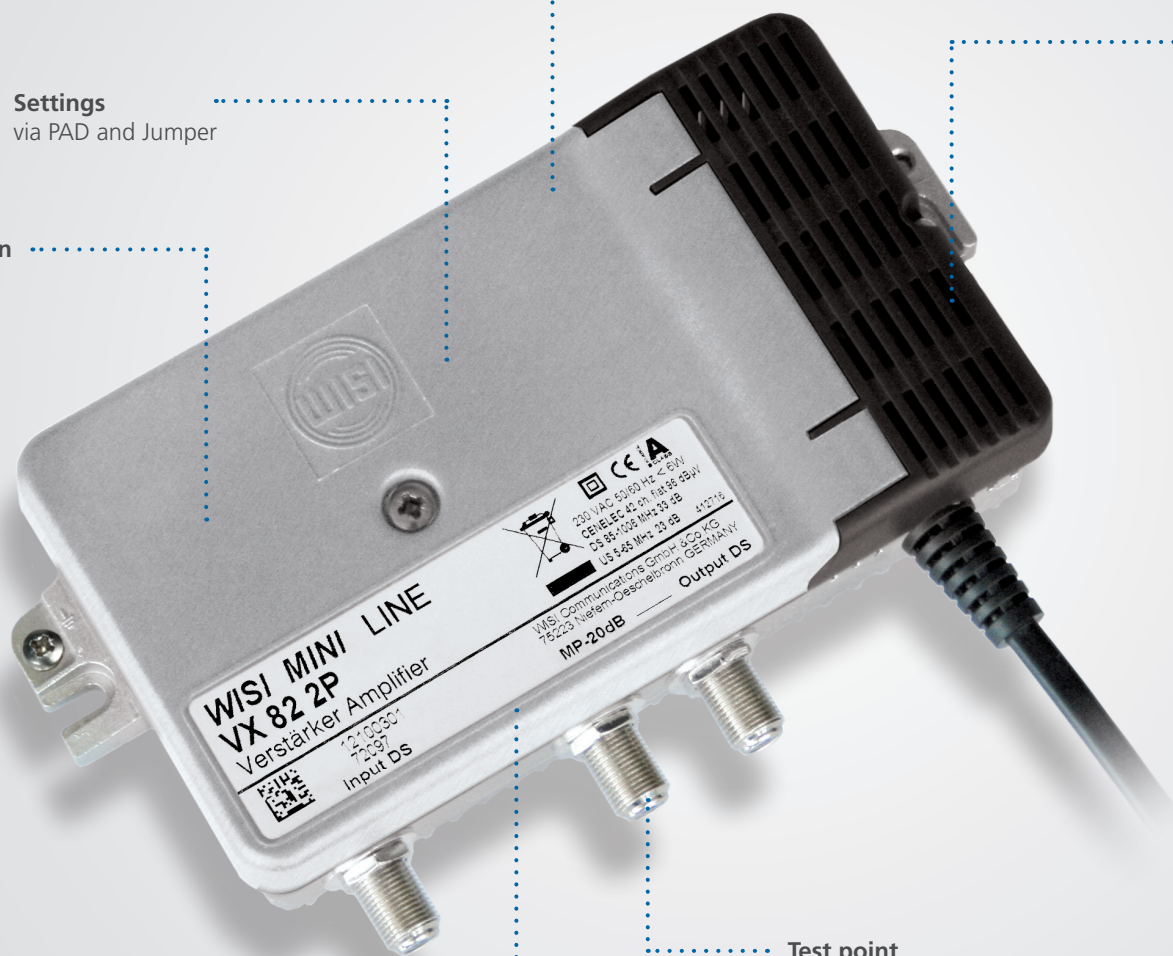
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WISI Amplifiers: Tough guys for every application

housing with high
screening factor

Settings
via PAD and Jumper

Compact design



Test point

integrated
Return path amplifier



Amplifiers

WISI in-house distribution amplifiers meet all the requirements from terminal in a family house or in apartment buildings to supply in high-rise buildings, with WISI find the right type having the right performance.

All amplifiers have a robust, corrosion-resistant die-cast zinc housing with lamellar for excellent air circulation and heat derivation, are multimedia capable and comply with Class A.

WISI in-house distribution amplifiers convince with the latest technology and have been certified for installation by many cable operators.

WISI Amplifiers at a glance:

- Certified by many cable network operators
- High efficiency
- Compact design
- Low power consumption

... very low
power consumption

Split band amplifier

VS 93 B

2,4 GHz-splitband amplifier



Split band amplifier to bring together terrestrial and 1 SAT frequency band on a trunk line.

Technische Daten	
SAT-IF	
Inputs SAT	1 pcs.
Frequency range SAT	950...2400 MHz
Gain SAT	27...35 dB
Attenuator SAT	0...18 dB
Equalizer SAT	8...16 dB (Jumper 0/8 dB + 8 dB fix)
Output level SAT	115 dB
Noise figure SAT	7 dB
terrestrial	
Inputs TERR	2 pcs. (1 active/1 passive)
Frequency range TERR	5...862 MHz
Gain TERR	13...18 dB
Attenuator TERR	0...18 dB
Equalizer TERR	5 dB (fix)
Output level TERR	109 dB μ V
Output level	94 dB μ V
Through loss TERR	2,5 dB (passive way)
Return channel frequency range	5...65 MHz
Return path amplification	-3 dB
Connectors	
F-socket	3 pcs.
General data	
Operating voltage AC	230 V (50/60 Hz)
Power consumption	4 W
LNB supply voltage	18 V
LNB electrical power supply	0.3 A (short-circuit-proof)
EMC	
Dimensions (width x height x depth)	145 x 120 x 38 mm
Operating temperature range	-20...+50 °C

Split band amplifier



VS 95

Split band amplifier

Splitband amplifier for terrestrial and 2 SAT frequency bands for 2 trunk lines.



Technische Daten	
SAT-IF	
Inputs SAT	2 pcs. (via filter)
Frequency range SAT	950...2150 MHz
Gain SAT	29...32 dB
Attenuator SAT	20 dB
Equalizer SAT	7 dB (switchable)
Output level SAT	106 dB
Noise figure SAT	6 dB
terrestrial	
Inputs TERR	2 pcs. (via filter)
Frequency range TERR	47...862 MHz
Gain TERR	23...29 dB
Attenuator TERR	20 dB
Equalizer TERR	6 dB (switchable)
Output level TERR	117 dB μ V
General data	
Operating voltage AC	230 V
Power consumption	9 W
LNB supply voltage	0 V
LNB electrical power supply	- A
EMC	Class A, EN 50083-2
Dimensions (width x height x depth)	177 x 122 x 40 mm
Operating temperature range	-10...+50 °C

Multiband amplifier

VS 80 A

Multiband amplifier, split band



VS 83 B

Multiband amplifier



Technische Daten	
Downstream	
Inputs	4 pcs.
Frequency range input 1	47...108 MHz (FS Band 1 and FM)
Frequency range input 2	174...230 MHz (FS Band 2)
Frequency range input 3	470...862 MHz (FS Band 4)
Frequency range input 4	470...862 MHz (FS Band 5)
Gain input 1	36 dB (input level regulator 0-18 dB)
Gain input 2	37 dB (input level regulator 0-18 dB)
Gain input 3	42 dB (input level regulator 0-18 dB)
Gain input 4	42 dB (input level regulator 0-18 dB)
Output level 1	119 dB μ V (EN50083-5)
Output test point	-20 dB
Connectors	
F-socket	6 pcs.
General data	
Operating voltage AC	230 V
Power consumption	03-05-2018 W
Screening factor	Class A, EN 50083-2
Operating temperature range	-20...+55 °C

Multiband amplifier in split band technology for volumes 1-5

Technische Daten	
Downstream	
Inputs	4 pcs.
Frequency range input 1	40...108 MHz (FS Band 1 and FM)
Frequency range input 2	160...260 MHz (FS Band 2)
Frequency range input 3	470...862 MHz (FS Band 4 and 5)
Frequency range input 4	470...862 MHz (FS Band 4 and 5)
Gain input 1	20 dB (input level regulator 0-20 dB)
Gain input 2	20 dB (input level regulator 0-20 dB)
Gain input 3	30 dB (input level regulator 0-16 dB)
Gain input 4	30 dB (input level regulator 0-16 dB)
Output level 1	106 dB μ V
Output level 2	106 dB μ V
Connectors	
F-socket	6 pcs.
General data	
Operating voltage AC	230 V
Power consumption	7 W
Screening factor	Class A, EN 50083-2
Operating temperature range	-10...+65 °C
Protection class	IP20

Multiband amplifier for volumes 1-5

Multiband amplifier



VS 50 PRO

Programmable filter amplifier, channel converter



The VS 50 PRO is a programmable terrestrial filter with an integrated amplifier. Four VHF/UHF antennas can be connected via four F connectors, and one additional F connector is available for insertion of FM. Also, 32 freely selectable channels can be programmed - a number that may be doubled to 64 by extending the channel bandwidth. Moreover, the received terrestrial channels can be relocated to any required frequency, hence the VS 50 PRO is usable as a channel converter, to relocate UHF channels to a lower frequency range. The high selectivity ensures a high signal quality of the converted channels. All settings are done by the control unit OH 41 (not included in the delivery scope).

Technische Daten

Downstream	
Inputs	4 pcs.
Frequency range input 1	FM: 88...108 MHz; VHF: 174...240 MHz; UHF: 470...862 MHz
Frequency range input 2	FM: 88...108 MHz; VHF: 174...240 MHz; UHF: 470...862 MHz
Frequency range input 3	FM: 88...108 MHz; VHF: 174...240 MHz; UHF: 470...862 MHz
Frequency range input 4	FM: 88...108 MHz; VHF: 174...240 MHz; UHF: 470...862 MHz
Gain inputs 1...4	FM: 35 dB; VHF: >45 dB; UHF: >55 dB
Output level	113 dB μ V (6 DVB-T Kanäle); 113 dB μ V IMA3 (FM)
Attenuator	0...20 dB
Interstage equalizer (Slope)	0...9 dB
	0...20 dB
Selectivity	35 dB / 1 MHz
MER	VHF/UHF: 35 dB
Output test point	-20 dB
Connectors	
F-socket	7 pcs.
General data	
Operating voltage DC	12 V DC
Power consumption	20 W
Dimensions (width x height x depth)	232 x 166 x 55 mm
Weight	0.8 kg

In-house distribution amplifier Value Line

VX 43 0C 065

Building CATV Amplifier 1218 MHz



Technische Daten

Downstream	
Frequency range	85...1218 MHz
Gain	20 dB
Frequency response	$\leq \pm 0,75$ dB
Noise figure	< 6 dB @ 1 GHz, $< 6,5$ dB @ 1,2 GHz
Output level	100 dB μ V (CENELEC 42 Ch. (CSO/CTB ≥ 60 dB), flat)
Interstage equalizer (Slope)	0/4/8 dB (Jumper)
Step size	4 dB
Equalizer pivot point	1218 MHz
Test point	-20 dB
Upstream	
Frequency range	5...65 MHz
Gain	20 dB (± 1 dB)
Ripple	$\pm 0,75$ dB
Noise figure	$\leq 6,5$ dB
Output level	> 114 dB μ V (6 x 256 QAM)
General data	
RF connectors	F-connectors
Impedance	75 Ω
In/Output return loss	≥ 18 dB (-1,5dB/Oct. > 12 dB)
Supply voltage	180...265 V AC ± 10 %
Power consumption	< 6 W
Ambient temperature	-20...+55 °C
Protection class	IP 20
EMC	EN50083-2
Surge protection RF Ports	2 kV (1,2/50 μ s pulse EN61000-4-5)
Dimensions W x H x D	163 x 90 x 50 mm

characteristics

- High output level up to 1.2 GHz, with low power consumption
- Active single output
- Measuring socket for input and output
- Diplex filters and return path amplifier placed on one module

In-house distribution amplifier Value Line



VX 16 C 0650

In-house/distribution amplifier, locally supplied

Broadband distribution amplifier for use in coaxial networks.



Technische Daten	
Downstream	
Inputs	1 pcs.
Input measurement socket	-20 dB
Input return loss	≥18 dB (-1,5 dB/Okt., 14 dB)
Frequency range downstream	85...1006 MHz
Gain downstream	40/32 dB
Noise figure downstream	≤5 dB
Attenuator downstream	0...20 dB (PAD)
Equalizer downstream	0...20 dB (PAD)
Interstage attenuator downstream	0...8 dB (PAD, 6 dB by 32 dB amplifier)
Interstage equalizer downstream	0/7/10 dB (Jumper, 1006 MHz)
cable simulator downstream	0...10 dB (PAD)
Output level 1	111 dBμV (CENELEC 42 channels, flat, at CSO/CTB >60 dB/>60 dB)
Output test point	-20 dB
Output splitter	pcs. optional, by distribution module XM...2. Output can be switched
Upstream	
Gain upstream	22/32 dB (return channel full channel load)
Noise figure upstream	≤5 dB
Attenuator upstream input	0...20 dB (PAD)
Attenuator upstream output	0...20 dB (PAD)
Equalizer US	0...15 dB (PAD)
Output level 3	120 dBμV (1 TS 140 average load QAM64 MER >35, BER <1 x 10 ⁻⁸)
Output level 4	110 dBμV (US, EN50083-5/2.Ord)
Upstream test point	-20 dB
Connectors	
F-socket	2 pcs.
General data	
Operating voltage AC	230 V

Technische Daten	
Power consumption	<11,5/<12,5 W (Amplifying 32 dB/40 dB, + 2 W with return channel amplifier)
Screening factor	Class A, EN 50083-2
Protection class	IP66
Lightning protection	5 kV (EN61000-4-5, 1,2/50 μs pulse)

characteristics

- Vodafone KDG certified
- Unitymedia certified

In-house distribution amplifier Value Line

VX 19 C 0650

In-house distribution amplifier, remote-fed



Broadband distribution amplifier with remote feeding for use in coaxial networks.



Technische Daten	
Downstream	
Inputs	1 pcs.
Input measurement socket	-20 dB
Input return loss	≥18 dB (-1,5 dB/Okt., 14 dB)
Frequency range downstream	85...1006 MHz
Gain downstream	40/32 dB
Noise figure downstream	≤5 dB
Attenuator downstream	0...20 dB (PAD)
Equalizer downstream	0...20 dB (PAD)
Interstage attenuator downstream	0...8 dB (PAD, 6 dB by 32 dB amplifier)
Interstage equalizer downstream	0/7/10 dB (Jumper, 1006 MHz)
cable simulator downstream	0...10 dB (PAD)
Output level 1	111 dBμV (CENELEC 42 channels, flat, at CSO/CTB >60 dB/>60 dB)
Output test point	-20 dB
Output splitter	pcs. optional, by distribution module XM...2. Output can be switched
Upstream	
Gain upstream	22/32 dB (return channel full channel load)
Noise figure upstream	≤5 dB
Attenuator upstream input	0...20 dB (PAD)
Attenuator upstream output	0...20 dB (PAD)
Equalizer US	0...15 dB (PAD)
Output level 3	120 dBμV (1 TS 140 average load QAM64 MER >35, BER <1 x 10 ⁻⁸)
Output level 4	110 dBμV (US, EN50083-5/2.Ord)
Connectors	
PG11	2 pcs.
General data	
Operating voltage AC	27...65 V (50/60 Hz)
Power consumption	<11,5/<12,5 W (Amplifying 32 dB/40 dB, + 2 W with return channel amplifier)

Technische Daten	
Screening factor	Class A, EN 50083-2
Dimensions (width x height x depth)	232x145x86 mm
Protection class	IP66
Lightning protection	5 kV (EN61000-4-5, 1,2/50 μs pulse)

characteristics

- Vodafone KDG certified
- Unitymedia certified

In-house distribution amplifier Value Line



VX 24

In-house/distribution amplifier, locally supplied



Programmable broadband distribution amplifier for use in coaxial networks, delivery without return path modules. Settings via handset OH41. Second output configurable by splitter module XM..

Technische Daten	
Downstream	
Inputs	1 pcs.
Input measurement socket	-20 dB
Input return loss	18 dB (-1,5 dB/Oct.)
Frequency range downstream	47(85)...862 MHz (depending on diplexers)
Gain downstream	36 dB (single output)
Noise figure downstream	<7 dB
Attenuator downstream	0...15 dB (0,5 dB steps)
Equalizer downstream	0...15 dB (0,5 dB steps)
Interstage attenuator downstream	0/5 dB (Jumper)
Interstage equalizer downstream	0/7 dB (Jumper)
Output level 1	109 dB μ V (CENELEC 42 channels, flat, at CSO/CTB \geq 64 dB/ \geq 60 dB)
Output level 2	112 dB μ V (CENELEC 42 channels, 9 dB slope, at CSO/CTB \geq 63 dB/ \geq 60 dB)
Upstream	
Frequency range upstream	5...65/18...65 MHz (depending on diplexers)
Gain upstream	30 dB
Attenuator upstream input	1 dB-steps, 4...30 dB at Interstage loss/equalizer 0 dB)
Equalizer US	0...10 dB (0,5 dB steps)
Output level 3	114 dB μ V (2. system)
Output level 4	114 dB μ V (3. system)
ICS, US	0/8/>45 dB
Upstream test point	-20 dB
Connectors	
PG11	3 pcs.
General data	
Operating voltage AC	180...265 V (50/60 Hz)
Power consumption	<13 W (with return path amplifier)
Screening factor	Class A, EN 50083-2

Technische Daten	
Dimensions (width x height x depth)	236,8x145,2x89,2 mm
Operating temperature range	-20...+55 °C
Protection class	IP66
Lightning protection	HF-connections/ power supply; EN61000-4-5, 1,2/50 μ s pulse

characteristics

- Locally supplied
- CATV amplifier with high output level
- Protection class IP 66
- All setting with handset OH 41
- Active and passive return channel module
- Pluggable output splitter

In-house distribution amplifier Value Line

VX 25

In-house distribution amplifier, remote-fed



Programmable broadband distribution amplifier for use in coaxial networks, delivery without return path modules. Settings via handset OH41. Second output configurable by splitter module XM..

Technische Daten	
Downstream	
Inputs	1 pcs.
Input measurement socket	-20 dB
Input return loss	18 dB (-1,5 dB/Oct.)
Frequency range downstream	47(85)...862 MHz (depending on diplexers)
Gain downstream	36 dB (single output)
Noise figure downstream	<7 dB
Attenuator downstream	0...15 dB (0,5 dB steps)
Equalizer downstream	0...15 dB (0,5 dB steps)
Interstage attenuator downstream	0/5 dB
Interstage equalizer downstream	0/7 dB
Output level 1	109 dB μ V (CENELEC 42 channels, flat, at CSO/CTB \geq 64 dB/ \geq 60 dB)
Output level 2	112 dB μ V (CENELEC 42 channels, 9 dB slope, at CSO/CTB \geq 63 dB/ \geq 60 dB)
Upstream	
Frequency range upstream	5...65/18...65 MHz (depending on diplexers)
Gain upstream	30 dB
Attenuator upstream input	(1 dB-steps, 4...30 dB at Interstage loss/equalizer 0 dB)
Equalizer US	0...10 dB (0,5 dB steps)
Output level 3	114 dB μ V (2. system)
Output level 4	114 dB μ V (3. system)
ICS, US	0/8/>45 dB
Upstream test point	-20 dB
Connectors	
PG11	3 pcs.
General data	
Operating voltage AC	27...65 V
Power consumption	<13 W (with return path amplifier)
Remote power	<6/<3 A (input/ output)
Screening factor	dB Class A, EN 50083-2

Technische Daten	
Dimensions (width x height x depth)	236,8x145,2x89,2 mm
Operating temperature range	-20...+55 °C
Protection class	IP66
Lightning protection	(HF-connections/ power supply; EN61000-4-5, 1,2/50 μ s pulse)

characteristics

- Remote powered
- CATV amplifier with high output level
- Protection class IP 66
- All setting with handset OH 41
- Active and passive return channel module
- Pluggable output splitter

In-house distribution amplifier Value Line



VX 26 H

In-house/distribution amplifier, locally supplied



The VX 26 H is a local feeding distribution amplifier with an integrated feedback channel and diplex filter. The settings can be adjusted via jumper or Q-steps and therefore an uninterrupted adjustment option is possible.

Technische Daten	
Downstream	
Inputs	1 pcs.
Input measurement socket	20 dB (resistance)
Input return loss	>18 dB (-1 dB/oct.)
Frequency range downstream	85...1006 MHz
Gain downstream	41 dB
Noise figure downstream	<6 dB
Attenuator downstream	0...15 dB (1 dB-steps)
Equalizer downstream	0...22,5 dB (1,5 dB-steps)
Interstage attenuator downstream	0/5 dB (Jumper)
Interstage equalizer downstream	0/3/6/9 dB (Jumper)
Output level 1	111 dB μ V (CENELEC 42 channels, flat, CSO/CTB >65 dB/>60 dB)
Output level 2	114 dB μ V (CENELEC 42 Kanäle, 6dB slope, bei CSO/CTB 65/60 dB)
Output test point	-20 dB (directional coupler)
Upstream	
Frequency range upstream	5...65 MHz
Gain upstream	(return channel full channel load)
Noise figure upstream	<6 dB
Attenuator upstream input	0...15 dB (1 dB-steps)
Attenuator upstream output	0...15 dB (1 dB-steps + 5 dB Interstage Jumper)
Equalizer US	0/3/6/9 dB (Jumper)
Output level US	112 dB μ V (1 TS 140)
Output test jack US	-20 dB
Connectors	
F-socket	4 pcs.
General data	
Operating voltage AC	180...265 V (50/60 Hz)
Power consumption	18 W
Screening factor	Class A, EN 50083-2
Dimensions (width x height x depth)	231 x 158 x 85 mm

Technische Daten	
Operating temperature range	-20...+55 °C
Protection class	IP66
Lightning protection	(EN61000-4-5, 1,2/50 μ s pulse)

characteristics

- Uninterruptible setting
- Screwed, folding housing cover
- Integrated return channel and diplexers
- All settings via exact switching step (Q-step) or jumper
- Output splitter (jumper)
- Lightning protection HF- connections 4 kV

In-house distribution amplifier Value Line

VX 29 H

In-house distribution amplifier, remote-fed



Broadband distribution amplifier with remote feeding for use in coaxial networks.

Technische Daten	
Downstream	
Inputs	1 pcs.
Input measurement socket	-20 dB (resistance)
Input return loss	>18 dB (-1 dB/oct.)
Frequency range downstream	85...1006 MHz
Gain downstream	41 dB
Noise figure downstream	<6 dB
Attenuator downstream	0...15 dB (1 dB-steps)
Equalizer downstream	0...22,5 dB (1,5 dB-steps)
Interstage attenuator downstream	0/5 dB (Jumper)
Interstage equalizer downstream	0/3/6/9 dB (Jumper)
cable simulator downstream	0/5 dB (Jumper)
Output level 1	111 dB μ V (CENELEC 42 channels, flat, CSO/CTB >65 dB/>60 dB)
Output level 2	114 dB μ V (CENELEC 42 Kanäle, 6dB slope, bei CSO/CTB 65/60 dB)
Output test point	-20 dB (directional coupler)
Output return loss	>18 dB
Upstream	
Frequency range upstream	5...65 MHz
Gain upstream	24 dB (return channel full channel load)
Noise figure upstream	<6 dB
Attenuator upstream input	0...15 dB (1 dB-steps)
Attenuator upstream output	0...15 dB (1 dB-steps, + 5 dB Interstage Jumper)
Equalizer US	0/3/6/9 dB (Jumper)
Output level US	112 dB μ V (1 TS 140)
Output test jack US	-20 dB
Connectors	
PG11	3 pcs.
F-socket	1 pcs.
General data	
Operating voltage AC	27...65 V

Technische Daten	
Power consumption	18 W
Remote power	07-03-2018 A (input/ output)
Screening factor	Class A, EN 50083-2
Dimensions (width x height x depth)	231x158x85 mm
Operating temperature range	-20...+55 °C
Protection class	IP66
Lightning protection	4 kV (EN61000-4-5 1,2/50 μ s pulse)

characteristics

- Uninterruptible setting
- Screwed, folding housing cover
- Integrated return channel and diplexers
- All settings via exact switching step (Q-step) or jumper
- Output splitter (jumper)
- Lightning protection HF- connections 4 kV
- CSO >65 dB
- CTB >60 dB

In-house distribution amplifier Value Line



VX 2022 065

Building CATV Amplifier 1,2 GHz



The VX 2022 is a location feeding in-house amplifier with a frequency range up to 1.2 GHz. It has an active output and a measuring socket on the input and output. Diplex filter and return path amplifier are grouped together on a module (VX201-xxx) and available in the versions 65 MHz, 85 MHz and 204 MHz. All settings are done without interruption with Q-step switch or jumper. In addition, a high pass filter XE-xx can be plugged in the return path to influence the ingress influences.

Technische Daten	
Downstream	
Frequency range	85...1218 MHz
Gain	22 dB (\pm 0,8 dB)
Ripple	$\leq \pm$ 0,8 dB
Noise figure	<7,5 dB @ 1 GHz, <8,0 dB @ 1,2 GHz
Output level	106 dB μ V (CENELEC 41 Ch. (CSO/CTB \geq 60 dB), flat)
Output level	103 dB μ V (110 Ch/QAM 256, flat, BER <1 E-9)
Output level	102 dB μ V (all QAM (138 x 256 QAM), EN60728-3-1, flat)
Input cable simulator	0/5/10 dB (Jumper)
Input attenuator	0...15 dB (Rotary switch 15 Steps)
Step size	1 dB
Input equalizer	0...30 dB/1218 Drehpunkt (Rotary switch 15 Steps)
Step size	2 dB
Interstage equalizer (Slope)	0/2/4/6 dB (Jumper)
Test point	-20 dB
Upstream	
High pass filter pluggable (optional)	15 MHz (WISI - XE 04 0150)
Gain	21 dB (\pm 0,8 dB)
Ripple	\pm 0,5 dB
Noise figure	<8,5 dB
Output level	110 dB μ V (6 x 256 QAM)
Interstage attenuator	0...15 dB (Rotary switch 15 Steps)
Step size	1 dB
Interstage equalizer	0...8 dB (Jumper 4 Steps)
Output attenuator	0/10 dB (Jumper)
Output equalizer	0/6 dB (Jumper)
Ingress control switch (optional)	nach ICS EN 60728-14
Test point	-20 dB
General data	
RF connectors	PG 11/F

Technische Daten	
In/Output return loss	5...40 MHz >16, >40MHz -1,5dB Oktave, >12
Supply voltage	230 V AC \pm 10 %
Power consumption	<13 W
Ambient temperature	-20...+55 °C
Protection class	IP 67
EMC	EN50083-2
Surge protection RF Ports	2 kV (1,2/50 μ s pulse EN61000-4-5)
Dimensions W x H x D	232 x 158 x 86 mm

characteristics

- High output level up to 1.2 GHz, with low power consumption
- Active single output
- Measuring socket for input and output
- All settings (gain, slope etc.) by rotary switch and Jumper
- Diplex filters, return amplifier pluggable on one module
- Optional - receiver according to EN 60728-14 for ICS-settings
- Optional - pluggable high pass filter at the return path channel
- Low power input <13 W

In-house distribution amplifier Value Line

VX 2022 204

Building CATV Amplifier 1,2 GHz



The VX 2022 is a location feeding in-house amplifier with a frequency range up to 1.2 GHz. It has an active output and a measuring socket on the input and output. Diplex filter and return path amplifier are grouped together on a module (VX201-xxx) and available in the versions 65 MHz, 85 MHz and 204 MHz. All settings are done without interruption with Q-step switch or jumper. In addition, a high pass filter XE-xx can be plugged in the return path to influence the ingress influences.

Technische Daten	
Downstream	
Frequency range	258...1218 MHz
Gain	22 dB ($\pm 0,8$ dB)
Ripple	$\leq \pm 0,8$ dB
Noise figure	$<7,5$ dB @ 1 GHz, $<8,0$ dB @ 1,2 GHz
Output level	106 dB μ V (CENELEC 41 Ch. (CSO/CTB ≥ 60 dB), flat)
Output level	103 dB μ V (110 Ch/QAM 256, flat, BER <1 E-9)
Output level	102 dB μ V (all QAM (138 x 256 QAM), EN60728-3-1, flat)
Input cable simulator	0/5/10 dB (Jumper)
Input attenuator	0...15 dB (Rotary switch 15 Steps)
Step size	1 dB
Input equalizer	0...30 dB/1218 MHz Drehpunkt (Rotary switch 15 Steps)
Step size	2 dB
Interstage equalizer (Slope)	0/2/4/6 dB (Jumper)
Test point	-20 dB
Upstream	
High pass filter pluggable (optional)	15 MHz (WISI - XE 04 0150)
Gain	21 dB ($\pm 0,8$ dB)
Ripple	$\pm 0,5$ dB
Noise figure	$<8,5$ dB
Output level	107 dB μ V (24 x 256 QAM)
Interstage attenuator	0...15 dB (Rotary switch 15 Steps)
Step size	1 dB
Interstage equalizer	0...8 dB (Jumper 4 Steps)
Output attenuator	0/10 dB (Jumper)
Output equalizer	0/6 dB (Jumper)
Ingress control switch (optional)	nach ICS EN 60728-14
Test point	-20 dB
General data	
RF connectors	PG 11/F

Technische Daten	
Impedance	75 Ω
In/Output return loss	5...40 MHz >16 , >40 MHz -1,5dB Oktave, >12
Supply voltage	230 V AC ± 10 %
Power consumption	< 13 W
Ambient temperature	-20...+55 $^{\circ}$ C
Protection class	IP 67
EMC	EN50083-2
Surge protection RF Ports	2 kV (1,2/50 μ s pulse EN61000-4-5)
Dimensions W x H x D	232 x 158 x 86 mm

characteristics

- High output level up to 1.2 GHz, with low power consumption
- Active single output
- Measuring socket for input and output
- All settings (gain, slope etc.) by rotary switch and Jumper
- Diplex filters, return amplifier pluggable on one module
- Optional - receiver according to EN 60728-14 for ICS-settings
- Optional - pluggable high pass filter at the return path channel
- Low power input <13 W

In-house distribution amplifier Value Line



VX 2030 065

Building CATV Amplifier 1,2 GHz



The VX 2030 is a location feeding in-house amplifier with a frequency range up to 1.2 GHz. It has an active output and a measuring socket on the input and output. Diplex filter and return path amplifier are grouped together on a module (VX201-xxx) and available in the versions 65 MHz, 85 MHz and 204 MHz. All settings are done without interruption with Q-step switch or jumper. In addition, a high pass filter XE-xx can be plugged in the return path to influence the ingress influences.

Technische Daten	
Downstream	
Frequency range	85...1218 MHz
Gain	30 dB (± 1 dB)
Ripple	$\leq \pm 0,8$ dB
Noise figure	$< 7,5$ dB @ 1 GHz, $< 8,0$ dB @ 1,2 GHz
Output level	112 dB μ V (CENELEC 41 Ch. (CSO/CTB ≥ 60 dB), flat)
Output level	107 dB μ V (110 Ch/QAM 256, flat, BER < 1 E-9)
Output level	106 dB μ V (all QAM (138 x 256 QAM), EN60728-3-1, flat)
Input cable simulator	0/5/10 dB (Jumper)
Input attenuator	0...15 dB (Rotary switch 15 Steps)
Step size	1 dB
Input equalizer	0...30 dB/ 1218 MHz Drehpunkt (Rotary switch 15 Steps)
Step size	2 dB
Interstage equalizer (Slope)	0/2/4/6/8 dB (Jumper)
Interstage attenuation	0/2/4/6 dB
Test point	-20 dB
Upstream	
Frequency range	5...65 MHz
High pass filter pluggable (optional)	15 MHz (WISI - XE 04 0150)
Gain	29 dB (± 1 dB)
Ripple	$\pm 0,5$ dB
Noise figure	$< 6,5$ dB
Output level	110 dB μ V (6 x 256 QAM)
Interstage attenuator	0...15 dB (Rotary switch 15 Steps)
Step size	1 dB
Interstage equalizer	0/2/4/6/8 dB (Jumper)
Output attenuator	0/10 dB (Jumper)
Output equalizer	0/6 dB (Jumper)
Ingress control switch (optional)	nach ICS EN 60728-14
Test point	-20 dB

Technische Daten	
General data	
RF connectors	PG 11/F
Impedance	75 Ω
In/Output return loss	5...40 MHz > 16 , > 40 MHz -1,5dB Oktave, > 12
Supply voltage	230 V AC ± 10 %
Power consumption	< 18 W
Ambient temperature	-20...+55 $^{\circ}$ C
Protection class	IP 67
EMC	EN50083-2
Surge protection RF Ports	2 kV (1,2/50 μ s pulse EN61000-4-5)
Dimensions W x H x D	232 x 158 x 86 mm

characteristics

- High output level up to 1.2 GHz, with low power consumption
- Active single output
- Measuring socket for input and output
- All settings (gain, slope etc.) by rotary switch and Jumper
- Diplex filters, return amplifier pluggable on one module
- Optional - receiver according to EN 60728-14 for ICS-settings
- Optional - pluggable high pass filter at the return path channel
- Low power input < 18 W

In-house distribution amplifier Value Line

VX 2030 204

Building CATV Amplifier 1,2 GHz



The VX 2030 is a location feeding in-house amplifier with a frequency range up to 1.2 GHz. It has an active output and a measuring socket on the input and output. Diplex filter and return path amplifier are grouped together on a module (VX201-xxx) and available in the versions 65 MHz, 85 MHz and 204 MHz. All settings are done without interruption with Q-step switch or jumper. In addition, a high pass filter XE-xx can be plugged in the return path to influence the ingress influences.

Technische Daten	
Downstream	
Frequency range	258...1218 MHz
Gain	30 dB (± 1 dB)
Ripple	$\leq \pm 0,8$ dB
Noise figure	$< 7,5$ dB @ 1 GHz, $< 8,0$ dB @ 1,2 GHz
Output level	112 dB μ V (CENELEC 41 Ch. (CSO/CTB ≥ 60 dB), flat)
Output level	107 dB μ V (110 Ch/QAM 256, flat, BER < 1 E-9)
Output level	106 dB μ V (all QAM (138 x 256 QAM), EN60728-3-1, flat)
Input cable simulator	0/5/10 dB (Jumper)
Input attenuator	0...15 dB (Rotary switch 15 Steps)
Step size	1 dB
Input equalizer	0...30 dB/1218 MHz Drehpunkt (Rotary switch 15 Steps)
Step size	2 dB
Interstage equalizer (Slope)	0/2/4/6/8 dB (Jumper)
Interstage attenuation	0/2/4/6 dB
Test point	-20 dB
Upstream	
Frequency range	5...204 MHz
High pass filter pluggable (optional)	15 MHz (WISI - XE 04 0150)
Gain	29 dB (± 1 dB)
Ripple	$\pm 0,5$ dB
Noise figure	$< 6,5$ dB
Output level	107 dB μ V (24 x 256 QAM)
Interstage attenuator	0...15 dB (Rotary switch 15 Steps)
Step size	1 dB
Interstage equalizer	0/2/4/6/8 dB (Jumper)
Output attenuator	0/10 dB (Jumper)
Output equalizer	0/6 dB (Jumper)
Ingress control switch (optional)	nach ICS EN 60728-14
Test point	-20 dB

Technische Daten	
General data	
RF connectors	PG 11/F
Impedance	75 Ω
In/Output return loss	5...40 MHz > 16 , > 40 MHz -1,5dB Oktave, > 12
Supply voltage	230 V AC ± 10 %
Power consumption	< 18 W
Ambient temperature	-20...+55 $^{\circ}$ C
Protection class	IP 67
EMC	EN50083-2
Surge protection RF Ports	2 kV (1,2/50 μ s pulse EN61000-4-5)
Dimensions W x H x D	232 x 158 x 86 mm

characteristics

- High output level up to 1.2 GHz, with low power consumption
- Active single output
- Measuring socket for input and output
- All settings (gain, slope etc.) by rotary switch and Jumper
- Diplex filters, return amplifier pluggable on one module
- Optional - receiver according to EN 60728-14 for ICS-settings
- Optional - pluggable high pass filter at the return path channel
- Low power input < 18 W

In-house distribution amplifier Value Line



VX 2035 065

Building CATV Amplifier 1,2 GHz



The VX 2035 is a location feeding in-house amplifier with a frequency range up to 1.2 GHz. It has an active output and a measuring socket on the input and output. Diplex filter and return path amplifier are grouped together on a module (VX201-xxx) and available in the versions 65 MHz, 85 MHz and 204 MHz. All settings are done without interruption with Q-step switch or jumper. In addition, a high pass filter XE-xx can be plugged in the return path to influence the ingress influences.

Technische Daten	
Downstream	
Frequency range	85...1218 MHz
Gain	35 dB (± 1 dB)
Ripple	$\leq \pm 0,8$ dB
Noise figure	$< 7,5$ dB @ 1 GHz, $< 8,0$ dB @ 1,2 GHz
Output level	115 dB μ V (CENELEC 41 Ch. (CSO/CTB ≥ 60 dB), flat)
Output level	111 dB μ V (110 Ch/QAM 256, flat, BER < 1 E-9)
Output level	110 dB μ V (all QAM (138 x 256 QAM), EN60728-3-1, flat)
Input cable simulator	0/5/10 dB (Jumper)
Input attenuator	0...15 dB (Rotary switch 15 Steps)
Step size	1 dB
Input equalizer	0...30 dB/1218 MHz (Rotary switch 15 Steps)
Step size	2 dB
Interstage equalizer (Slope)	0/2/4/6/8/10 dB (Jumper)
Interstage attenuation	0/2/4/6 dB
Test point	-20 dB
Upstream	
Frequency range	5...65 MHz
High pass filter pluggable (optional)	15 MHz (WISI - XE04/0150)
Gain	29 dB (± 1 dB)
Ripple	$\pm 0,5$ dB
Noise figure	$< 6,5$ dB
Output level	110 dB μ V (6 x 256 QAM)
Interstage attenuator	0...15 dB (Rotary switch 15 Steps)
Step size	1 dB
Interstage equalizer	0/2/4/6/8 dB (Jumper)
Output attenuator	0/10 dB (Jumper)
Output equalizer	0/6 dB (Jumper)
Ingress control switch (optional)	nach ICS EN 60728-14
Test point	-20 dB

Technische Daten	
General data	
RF connectors	PG 11/F
Impedance	75 Ω
In/Output return loss	5...40 MHz > 16 , > 40 MHz -1,5dB Oktave, > 12
Supply voltage	230 V AC ± 10 %
Power consumption	< 22 W
Ambient temperature	-20...+55 $^{\circ}$ C
Protection class	IP 67
EMC	EN50083-2
Surge protection RF Ports	2 kV (1,2/50 μ s pulse EN61000-4-5)
Dimensions W x H x D	232 x 158 x 86 mm

characteristics

- High output level up to 1.2 GHz, with low power consumption
- Active single output
- Measuring socket for input and output
- All settings (gain, slope etc.) by rotary switch and Jumper
- Diplex filters, return amplifier pluggable on one module
- Optional - receiver according to EN 60728-14 for ICS-settings
- Optional - pluggable high pass filter at the return path channel
- Very low power consumption < 22 W.

In-house distribution amplifier Value Line

VX 2035 204

Building CATV Amplifier 1,2 GHz



The VX 2035 is a location feeding in-house amplifier with a frequency range up to 1.2 GHz. It has an active output and a measuring socket on the input and output. Diplex filter and return path amplifier are grouped together on a module (VX201-xxx) and available in the versions 65 MHz, 85 MHz and 204 MHz. All settings are done without interruption with Q-step switch or jumper. In addition, a high pass filter XE-xx can be plugged in the return path to influence the ingress influences.

Technische Daten	
Downstream	
Frequency range	258...1218 MHz
Gain	35 dB (±1 dB)
Ripple	≤ ± 0,8 dB
Noise figure	<7,5 dB @ 1 GHz, <8,0 dB @ 1,2 GHz
Output level	115 dBμV (CENELEC 41 Ch. (CSO/CTB ≥ 60 dB), flat)
Output level	111 dBμV (110 Ch/QAM 256, flat, BER <1 E-9)
Output level	110 dBμV (all QAM (138 x 256 QAM), EN60728-3-1, flat)
Input cable simulator	0/5/10 dB (Jumper)
Input attenuator	0...15 dB (Rotary switch 15 Steps)
Step size	1 dB
Input equalizer	0...30 dB/1218 MHz Drehpunkt (Rotary switch 15 Steps)
Step size	2 dB
Interstage equalizer (Slope)	0/2/4/6/8/10 dB (Jumper)
Interstage attenuation	0/2/4/6 dB
Test point	-20 dB
Upstream	
Frequency range	5...204 MHz
High pass filter pluggable (optional)	15 MHz (WISI - XE04/0150)
Gain	29 dB (±1 dB)
Ripple	± 0,5 dB
Noise figure	< 6,5 dB
Output level	107 dBμV (24 x 256 QAM)
Interstage attenuator	0...15 dB (Rotary switch 15 Steps)
Step size	1 dB
Interstage equalizer	0/2/4/6/8 dB (Jumper)
Output attenuator	0/10 dB (Jumper)
Output equalizer	0/6 dB (Jumper)
Ingress control switch (optional)	nach ICS EN 60728-14
Test point	-20 dB

Technische Daten	
General data	
RF connectors	PG 11/F
Impedance	75 Ω
In/Output return loss	5...40 MHz >16, >40MHz -1,5dB Oktave, >12
Supply voltage	230 V AC ±10 %
Power consumption	< 22 W
Ambient temperature	-20...+55 °C
Protection class	IP 67
EMC	EN50083-2
Surge protection RF Ports	2 kV (1,2/50 μs pulse EN61000-4-5)
Dimensions W x H x D	232 x 158 x 86 mm

characteristics

- High output level up to 1.2 GHz, with low power consumption
- Active single output
- Measuring socket for input and output
- All settings (gain, slope etc.) by rotary switch and Jumper
- Diplex filters, return amplifier pluggable on one module
- Optional - receiver according to EN 60728-14 for ICS-settings
- Optional - pluggable high pass filter at the return path channel
- Very low power consumption <22 W.

In-house distribution amplifier Value Line



VX 1027

In-house amplifier



Technische Daten	
Downstream	
with US-module VX 102-0650	
Frequency range	85...1006 MHz (without US-module)
Return loss	≥ 18 dB (-1,5 dB/Oct.)
Gain	27,5 dB (± 0,75 dB)
Frequency response	typ. ± 0,5 dB (max. ± 0,8 dB)
cable simulator downstream	0/5/10 dB (Jumper)
Attenuator downstream	0...22,5 dB (Q-Step 1.5 dB step size)
Equalizer downstream	0...22,5 dB (Q-Step 1.5 dB step size)
Interstage Slope	0/5,5 dB (Jumper)
output level CC 101 channels flat	CTB / 66 dB ≥ 103 dBμV, CSO / 66 dB ≥ 105 dBμV
Noise figure	typ. 6 dB max. 7,5 dB
Test point downstream output	-20 dB (directional coupler)
Test point downstream input	-20 dB (Bidirectional)
Upstream	
with US-module VX 102-0650	
Return loss	≥ 18 dB ≥ 40 MHz 18 dB -1,5dB/Okt.
Gain	22 dB ± 0,75 dB, (Jumper 22/30dB)
Frequency response	typ. ± 0,5 dB max. ± 0,7 dB
Attenuator upstream output	0...22,5 dB (Q-Step 1.5 dB step size)
interstage equaliser upstream	0/1,5/3/4,5/6 dB (Jumper)
noise figure	<6 dB (22 dB-position), <4,5 dB (30 dB-position)
output level DIN - IMA 2	typ. 108 min. 106 dBμV
output level DIN - IMA 3	typ. 114 min. 112 dBμV
ICS Option	(slot for receiver EN60728-14)
Ingress Control Switch (ICS)	0/6/40 dB
General data	
RF connectors	F
Impedance	75 Ω

Technische Daten	
Supply voltage	230 V AC
Protection class	IP 20
EMC	EN50083-2
Surge protection RF Ports	2 kV (1,2/50 μs pulse EN61000-4-5)
Dimensions (width x height x depth)	163x90x47 mm

characteristics

- Aluminium pressure cast housing - value line
- Return path amplifier and diplex-filter modular
- ICS option modular
- Damping adjustment and equaliser adjustment interruption-free with Q-step switcher

In-house distribution amplifier Value Line

VX 1035

In-house amplifier



Technische Daten	
Downstream	
with US-module VX 102-0650	
Frequency range	85...1006 MHz (without US-module)
Return loss	≥ 18 dB (-1,5 dB/Oct.)
Gain	34 dB (± 0,75 dB)
Frequency response	typ. ± 0,5 dB (max. ± 0,8 dB)
cable simulator downstream	0/5/10 dB (Jumper)
Attenuator downstream	0...22,5 dB (Q-Step 1.5 dB step size)
Equalizer downstream	0...22,5 dB (Q-Step 1.5 dB step size)
Interstage Slope	0/5,5 dB (Jumper)
output level CC 101 channels flat	CTB / 66 dB ≥ 106 dBμV, CSO / 66 dB ≥ 110 dBμV
Noise figure	typ. 6 dB max. 7,5 dB
Test point downstream output	-20 dB (directional coupler)
Test point downstream input	-20 dB (Bidirectional)
Upstream	
with US-module VX 102-0650	
Return loss	≥ 18 dB ≥ 40 MHz 18 dB -1,5dB/Okt.
Gain	22 dB ± 0,75 dB, (Jumper 22/30dB)
Frequency response	typ. ± 0,5 dB max. ± 0,7 dB
Attenuator upstream output	0...22,5 dB (Q-Step 1.5 dB step size)
interstage equaliser upstream	0/1,5/3/4,5/6 dB (Jumper)
noise figure	<6 dB (22 dB-position), <4,5 dB (30 dB-position)
output level DIN - IMA 2	typ. 108 min. 106 dBμV
output level DIN - IMA 3	typ. 114 min. 112 dBμV
ICS Option	(slot for receiver EN60728-14)
Ingress Control Switch (ICS)	0/6/40 dB
General data	
RF connectors	F
Impedance	75 Ω

Technische Daten	
Supply voltage	230 V AC
Protection class	IP 20
EMC	EN50083-2
Surge protection RF Ports	2 kV (1,2/50 μs pulse EN61000-4-5)
Dimensions (width x height x depth)	163x90x47 mm

characteristics

- Aluminium pressure cast housing - value line
- Return path amplifier and diplex-filter modular
- ICS option modular
- Damping adjustment and equaliser adjustment interruption-free with Q-step switcher

In-house distribution amplifier Mini Line



4 Outputs

VX 67 B

In-house amplifier



Broadband in-house amplifier for use in coaxial networks with direct connection for up to 4 antenna outlets.

KLASSE
A
CLASS

Technische Daten

Downstream	
Inputs	1 pcs.
Frequency range downstream	85...1006 MHz
Gain downstream	6 dB
Output level 1	≥87 dBμV (CENELEC 42 channels, flat, at CSO/CTB >60 dB)
Upstream	
Frequency range upstream	5...65 MHz
Gain upstream	1 dB
Noise figure upstream	≤18 dB
Output level 4	116 dBμV (DIN. IMA2/3 >50 dB)
Connectors	
F-socket	5 pcs.
General data	
Operating voltage AC	230 V (±10 %)
Power consumption	3 W
Screening factor	Class A, EN 50083-2
Operating temperature range	-25...+75 °C
Protection class	IP20

characteristics

- Adjustable level and equalizer
- F-connectors
- Wall mounting
- Metal housing

In-house distribution amplifier Mini Line

VX 86

In-house amplifier



Broadband in-house amplifier for use in coaxial networks recommended for 1-3 households



Technische Daten

Downstream	
Inputs	1 pcs.
Frequency range downstream	47...862 MHz
Gain downstream	18...21 dB
Noise figure downstream	<8 dB
Attenuator downstream	0...18 dB
Equalizer downstream	3...18 dB
Interstage equalizer downstream	3 dB (constant)
Output level 1	96 dB μ V (DS, CENELEC 42 channels, flat)
Output level 2	98.5 dB μ V (DS, CENELEC 42 channels, 6 dB slope)
Output level 3	114 dB μ V (DS, EN50083-5, 3.Ord.)
Upstream	
Frequency range upstream	5...30 MHz (passive)
Connectors	
F-socket	2 pcs.
General data	
EMC	Class A, EN 50083-2
Dimensions (width x height x depth)	163 x 90 x 47 mm
Operating temperature range	-20...+55 °C
Protection class	IP20
Lightning protection	1 kV (EN61000-4-5, 1,2/50 μ s pulse)

characteristics

- With passive return path
- Adjustable level and equalizer
- F-connectors
- Wall mounting
- Metal housing

In-house distribution amplifier Mini Line



VX 87

In-house amplifier



Broadband in-house amplifier for use in coaxial networks recommended for 1-3 households



Technische Daten

Downstream	
Inputs	1 pcs.
Frequency range downstream	47...862 MHz
Gain downstream	28...31 dB
Noise figure downstream	<8 dB
Attenuator downstream	0...18 dB
Equalizer downstream	3...18 dB
Interstage equalizer downstream	3 dB (constant)
Output level 1	96 dB μ V (DS, CENELEC 42 channels, flat)
Output level 2	98.5 dB μ V (DS, CENELEC 42 channels, 6 dB slope)
Output level 3	114 dB μ V (DS, EN50083-5, 3.Ord.)
Upstream	
Frequency range upstream	5...30 MHz (passive)
Connectors	
F-socket	2 pcs.
General data	
EMC	Class A, EN 50083-2
Dimensions (width x height x depth)	163 x 90 x 47 mm
Operating temperature range	-20...+55 °C
Protection class	IP20
Lightning protection	1 kV (EN61000-4-5, 1,2/50 μ s pulse)

characteristics

- With passive return path
- Adjustable level and equalizer
- F-connectors
- Wall mounting
- Metal housing

In-house distribution amplifier Mini Line

VX 81 05

Homeamplifier, 1 GHz, KDG 1TS140



Locally fed 1GHz distribution amplifier in Mini Line housing with fold-up lid. The programming elements allow variable adjustment. Functional equation with PAD-based version 8x OP.

Technische Daten

Down-Stream / DS	
Frequency range downstream	85...1006 MHz
Gain downstream	21 dB
Frequency response	$\leq \pm 0,8$ dB
Output level	≥ 98 dB μ V (CENELEC 42 Ch, flat, CTB/CSO ≥ 60 dB)
IN-ATT (adjuster)	0...20 dB
IN-EQ (adjuster)	0...20 dB
Interstage-EQ (fix)	3 dB
noise figure	≤ 7 dB
Upstream (US)	
US frequency range	5...65 MHz
Gain upstream	16 dB
Frequency response upstream	$\leq \pm 0,8$ dB
Output level	120 dB μ V (KDG TS140 medium load; BER $< 1e-10-6$)
IN-ATT (adjuster)	0...20 dB
noise figure	≤ 7 dB
General data	
HF-connections	F
Impedance	75 Ω
Return loss	≥ 14 dB (>40 MHz - 1,5 dB Okta-ve ≥ 10 dB)
Lightning protection	1 kV (severity 1 / EN60728-3)
EMC	EN50083-2
Supply voltage	230 V ($\pm 10\%$)
Power consumption max.	$\leq 4,5$ W
Ambient temperature	-20...+55 °C
Storage temperature	-25...+75 °C
Protection class	IP20

characteristics

- Compact housing MiniLine
- All RF connections F-connector
- setting elements with rotary switch
- Flap-lid for easy handling

In-house distribution amplifier Mini Line



VX 82 05

Homeamplifier, 1 GHz, KDG 1TS140



Locally fed 1GHz distribution amplifier in Mini Line housing with fold-up lid. The programming elements allow variable adjustment. Functional equation with PAD-based version 8x OP.

Technische Daten

Down-Stream / DS	
Frequency range downstream	85...1006 MHz
Gain downstream	31 dB
Frequency response	$\leq \pm 0,8$ dB
Output level	≥ 98 dB μ V (CENELEC 42 Ch, flat, CTB/CSO ≥ 60 dB)
IN-ATT (adjuster)	0...20 dB
IN-EQ (adjuster)	0...20 dB
Interstage-EQ (fix)	3 dB
noise figure	$\leq 6,5$ dB
Upstream (US)	
US frequency range	5...65 MHz
Gain upstream	25 dB
Frequency response upstream	$\leq \pm 0,8$ dB
Output level	120 dB μ V (KDG TS140 medium load; BER $< 1e-10-6$)
IN-ATT (adjuster)	0...20 dB
noise figure	$\leq 4,5$ dB
General data	
HF-connections	F
Impedance	75 Ω
Return loss	≥ 14 dB (>40 MHz - 1,5 dB Okta-ve ≥ 10 dB)
Lightning protection	1 kV (severity 1 / EN60728-3)
EMC	EN50083-2
Supply voltage	230 V ($\pm 10\%$)
Power consumption max.	$\leq 5,5$ W
Ambient temperature	-20...+55 $^{\circ}$ C
Storage temperature	-25...+75 $^{\circ}$ C
Protection class	IP20

characteristics

- Compact housing MiniLine
- All RF connections F-connector
- setting elements with rotary switch
- Flap-lid for easy handling

In-house distribution amplifier Mini Line

VX 83 05

Homeamplifier, 1 GHz, KDG 1TS140



Locally fed 1GHz distribution amplifier in Mini Line housing with fold-up lid. The programming elements allow variable adjustment. Functional equation with PAD-based version 8x OP.

Technische Daten

Down-Stream / DS

Frequency range downstream	85...1006 MHz
Gain downstream	31 dB
Frequency response	$\leq \pm 0,8$ dB
Output level	≥ 102 dB μ V (CENELEC 42 Ch, flat, CTB/CSO ≥ 60 dB)
IN-ATT (adjuster)	0...20 dB
IN-EQ (adjuster)	0...20 dB
Interstage-EQ (fix)	3 dB
noise figure	$\leq 6,5$ dB

Upstream (US)

US frequency range	5...65 MHz
Gain upstream	25 dB
Frequency response upstream	$\leq \pm 0,8$ dB
Output level	120 dB μ V (KDG TS140 medium load; BER $< 1e-10-6$)
IN-ATT (adjuster)	0...20 dB
noise figure	$\leq 4,5$ dB

General data

HF-connections	F
Impedance	75 Ω
Return loss	≥ 14 dB (>40 MHz - 1,5 dB Okta-ve ≥ 10 dB)
Lightning protection	1 kV (severity 1 / EN60728-3)
EMC	EN50083-2
Supply voltage	230 V ($\pm 10\%$)
Power consumption max.	$\leq 5,5$ W
Ambient temperature	-20...+55 °C
Storage temperature	-25...+75 °C
Protection class	IP20

characteristics

- Compact housing MiniLine
- All RF connections F-connector
- setting elements with rotary switch
- Flap-lid for easy handling

In-house distribution amplifier Mini Line



VX 88 OP

In-house/distribution amplifier, locally supplied



MIDI-LINE distribution amplifier in zinc diecast housing, flap cover for easy handling, attenuators and equaliser configurable via PADs and jumper. Measuring points on the input and output. Return path amplifier on the main board, low power input and high power output. Classification: VX 88 OP: KDG 1TS140 B (3.2)

Technische Daten

Down-Stream / DS	
Frequency range downstream	85...1006 MHz
Gain downstream	30 dB
Attenuator downstream	0...20 dB
Equalizer downstream	0...20 dB
Interstage equalizer downstream	0/6 dB
Output level 1	100 dB μ V
Noise figure downstream	$\leq 7,0$ dB
Upstream (US)	
Frequency range upstream	5...65 MHz
Gain upstream	25 dB
Attenuator upstream input	0...20 dB
Equalizer US	0/3/6/9 dB
Noise figure upstream	≤ 5 dB
Output level	120 dB μ V
Input test point (bidirectional)	-20 dB
Output test point (directional coupler)	dB
General data	
Impedance	75 Ω
Operating voltage	230 V AC ($\pm 10\%$, LED green)
Power consumption	$\leq 5,5$ W
Operating temperature range	-20...+55 $^{\circ}$ C
Storage temperature	-25...+75 $^{\circ}$ C
Protection class	IP20
Electro Magnetic Compatibility (EMC)	EN50083-2
Lightning protection	1 kV (EN60728-2:- 1,2/50 μ s pulse)
Dimensions (width x height x depth)	163 x 90 x 50 mm

characteristics

- Zinc die-cast housing
- Flap-lid for easy handling
- Configuration of attenuators and equalizers via PADs and jumpers
- Measuring points at the input and output
- Return path amplifier on the circuit board
- Low power consumption, high output level
- Classification: KDG 1TS140 C (3.2)

In-house distribution amplifier Home Line

VX 45 D 3830

In-house amplifier



Broadband in-house amplifier for use in coaxial networks recommended for 7 to 18 households.

Technische Daten

Downstream	
Inputs	1 pcs.
Input measurement socket	20 dB (resistance)
Frequency range downstream	85...1006 MHz
Gain downstream	38 dB
Noise figure downstream	<7,5 dB
Attenuator downstream	0...15 dB (1 dB-steps)
Equalizer downstream	0...22,5 dB (1,5 dB-steps)
Interstage attenuator downstream	0/6 dB (Jumper)
Interstage equalizer downstream	0/6 dB (Jumper)
Output level 1	≥107 dBμV (CENELEC 42 channels, flat, at CSO/CTB >60 dB)
Output test point	20 dB (directional coupler)
Upstream	
Frequency range upstream	5...65 MHz
Gain upstream	30 dB
Noise figure upstream	<6 dB
Attenuator upstream output	0/10 dB (Jumper)
Equalizer US	0/3/6/9 dB (Jumper)
Output level 4	120 dBμV (3 x 64 QAM-signals)
Connectors	
F-socket	4 pcs.
General data	
Operating voltage AC	230 V
Power consumption	6 W
Screening factor	dB Class A, EN 50083-2
Dimensions (width x height x depth)	163 x 90 x 47 mm
Operating temperature range	-20...+55 °C
Protection class	IP20
Lightning protection	1 kV (EN61000-4-5, 1,2/50 μs pulse)

characteristics

- Zinc die-cast housing
- Return path amplifier and diplexer on board
- External test points
- Alignment by uninterruptible rotary switch and jumper
- Passive return path (jumper)

In-house distribution amplifier Home Line



VX 45 E

In-house amplifier



Broadband in-house amplifier for use in coaxial networks recommended for 7 to 18 households



Technische Daten

Downstream	
Inputs	1 pcs.
Input measurement socket	20 dB (resistance)
Frequency range downstream	47...862 MHz
Gain downstream	36 dB
Noise figure downstream	7.5 dB
Attenuator downstream	0...25 dB (5 dB-jumper, 15 dB in 1 dB-steps)
Equalizer downstream	0...22,5 dB (1,5 dB-steps)
Interstage attenuator downstream	0/6 dB (Jumper)
Interstage equalizer downstream	0/6 dB (Jumper)
Output level 1	106 dB μ V (CENELEC 42 channels, flat, at CSO/CTB >60 dB)
Output test point	20 dB (directional coupler)
Connectors	
F-socket	4 pcs.
General data	
Operating voltage AC	230 V
Screening factor	Class A, EN 50083-2
Dimensions (width x height x depth)	163 x 90 x 47 mm
Operating temperature range	-20...+55 °C
Protection class	IP20
Lightning protection	1 kV (EN61000-4-5, 1,2/50 μ s pulse)

characteristics

- high quality downstream amplifier with band 1
- Zinc die-cast housing
- External test points
- Alignment by uninterruptible rotary switch and jumper
- Passive return path (jumper)

In-house distribution amplifier Home Line

VX 45 2P

In-house/distribution amplifier, locally supplied



Broadband in-house amplifier for use in coaxial networks recommended for 7-18 households, classification 1TS 140 C 4.3



Technische Daten

Downstream	
Inputs	1 pcs.
Input measurement socket	-20 dB
Frequency range downstream	85...1006 MHz
Gain downstream	39 dB
Noise figure downstream	≤6,0 dB
Attenuator downstream	0...20 dB (Interstage-loss 0/6 dB)
Equalizer downstream	0...20 dB (Interstage-equalizer 0/7 dB)
Output level 1	106 dBμV (CENELEC 42 channels, flat, at CSO/CTB >60 dB/>60 dB)
Output test point	-20 dB
Upstream	
Frequency range upstream	5...65 MHz
Gain upstream	29 dB
Noise figure upstream	≤5 dB
Attenuator upstream input	0...20 dB
Equalizer US	3 dB (Interstage, fix)
Output level 4	(KDG 1TS140 - average load with QAM 64 MER >35 dB, BER 1x10 ⁻⁸)
Connectors	
F-socket	4 pcs.
Operating voltage AC	230 V (50/60 Hz)
Power consumption	≤6 W
EMC	EN 50083-2
Dimensions (width x height x depth)	163 x 90 x 50 mm
Operating temperature range	-20...+55 °C
Protection class	IP20
Lightning protection	1 kV (EN60728-3, 1,2/50 μs pulse)

characteristics

- Zinc die-cast housing
- Flap-lid for easy handling
- Screening ensured with open flap-lid
- Configuration of attenuators and equalizers via PADs and jumpers
- Measuring points at the input and output
- Return path amplifier on the circuit board
- Low power consumption, high output level
- Unitymedia certified

In-house distribution amplifier Home Line



VX 46 2P

In-house/distribution amplifier, locally supplied



Broadband in-house amplifier for use in coaxial networks recommended for 7-18 households, classification 1TS 140 C 4.3

Technische Daten

Downstream

Inputs	1 pcs.
Input measurement socket	-20 dB
Frequency range downstream	85...1006 MHz
Gain downstream	41 dB
Noise figure downstream	≤6,0 dB
Attenuator downstream	0...20 dB (Interstage-loss 0/6 dB)
Equalizer downstream	0...20 dB (Interstage-equalizer 0/7 dB)
Output level 1	107 dBμV (CENELEC 42 channels, flat, at CSO/CTB >60 dB/>60 dB)

Upstream

Frequency range upstream	5...65 MHz
Gain upstream	32 dB
Noise figure upstream	≤5 dB
Attenuator upstream input	0...20 dB
Equalizer US	3 dB (Interstage, fix)
Output level 4	120 dBμV (KDG 1TS140 - average load with QAM 64 MER >35 dB, BER 1x10 ⁻⁸)

Connectors

F-socket	4 pcs.
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General data

Operating voltage AC	230 V (50/60 Hz)
Power consumption	≤6,0 W
Screening factor	EN 50083-2
Dimensions (width x height x depth)	163 x 90 x 50 mm
Operating temperature range	-20...+55 °C
Protection class	IP20
Lightning protection	1 kV (EN60728-3, 1,2/50 μs pulse)

characteristics

- Zinc die-cast housing
- Flap-lid for easy handling
- Screening ensured with open flap-lid
- Configuration of attenuators and equalizers via PADs and jumpers
- Measuring points at the input and output
- Return path amplifier on the circuit board
- Low power consumption, high output level
- Unitymedia certified

In-house distribution amplifier Home Line

VX 47 2P

In-house/distribution amplifier, locally supplied



Broadband in-house amplifier for use in coaxial networks recommended for 7-12 households, classification 1TS 140 C 3.3, cascade operation

Technische Daten	
Downstream	
Inputs	1 pcs.
Frequency range downstream	85...1006 MHz
Gain downstream	32 dB
Noise figure downstream	≤6,0 dB
Attenuator downstream	0...20 dB (Interstage-loss 0/6 dB)
Equalizer downstream	0...20 dB (Interstage-equalizer 0/7/10 dB)
cable simulator downstream	0...10 dB
Output level 1	106 dBμV (CENELEC 42 channels, flat, at CSO/CTB >60 dB/>60 dB)
Output test point	-20 dB
Upstream	
Frequency range upstream	5...65 MHz
Gain upstream	22 dB
Noise figure upstream	≤5 dB
Attenuator upstream input	0...20 dB
Attenuator upstream output	0...20 dB
Output level 4	120 dBμV (KDG 1TS140 - average load with QAM 64 MER >35 dB, BER 1x10 ⁻⁸)
Connectors	
F-socket	4 pcs.
General data	
Operating voltage AC	230 V (50/60 Hz)
Power consumption	6 W (max.)
Screening factor	EN 50083-2
Dimensions (width x height x depth)	163 x 90 x 50 mm
Operating temperature range	-20...+55 °C
Protection class	IP20
Lightning protection	4.5 kV (EN60728-3, 1,2/50 μs pulse)

characteristics

- Zinc die-cast housing
- Flap-lid for easy handling
- Screening ensured with open flap-lid
- Configuration of attenuators and equalizers via PADs and jumpers
- Measuring points at the input and output
- Return path amplifier on the circuit board
- Low power consumption, high output level

In-house distribution amplifier Home Line



VX 45 0P

In-house/distribution amplifier, locally supplied



Home-Line distribution amplifier in zinc diecast housing, flap cover for easy handling, attenuators and equaliser configurable via PADs and jumper. Measuring points on the input and output. Return path amplifier on the main board, low power input and high power output. Classification: KDG 1TS140 C (4.3)

Technische Daten

Down-Stream / DS	
Frequency range downstream	85...1006 MHz
Gain downstream	38 dB
Attenuator downstream	0...20 dB
Equalizer downstream	0...20 dB
Interstage equalizer downstream	0/6 dB
Output level 1	107 dB μ V
Noise figure downstream	\leq 6,0 dB
Upstream (US)	
Frequency range upstream	5...65 MHz
Gain upstream	28 dB
Attenuator upstream input	0...20 dB
Equalizer US	0/3/6/9 dB
Noise figure upstream	\leq 5 dB
Output level	120 dB μ V
Input test point (bidirectional)	-20 dB
General data	
Impedance	75 Ω
Operating voltage	230 V AC (\pm 10%, LED green)
Power consumption	\leq 6,0 W
Operating temperature range	-20...+55 $^{\circ}$ C
Storage temperature	-25...+75 $^{\circ}$ C
Protection class	IP20
Electro Magnetic Compatibility (EMC)	EN50083-2
Lightning protection	1 kV (EN60728-3: - 1,2/50 μ s pulse)
Dimensions (width x height x depth)	163 x 90 x 50 mm

characteristics

- Zinc die-cast housing
- Flap-lid for easy handling
- Configuration of attenuators and equalizers via PADs and jumpers
- Measuring points at the input and output
- Return path amplifier on the circuit board
- Low power consumption, high output level
- Classification: KDG 1TS140 C (4.3)

In-house distribution amplifier Home Line

VX 1014

In-house amplifier



Technische Daten

Technische Daten	
Downstream	
with US-module VX 101-0650	
Frequency range	85...1006 MHz (without US-module)
Return loss	≥ 18 dB (-1,5 dB/Oct.)
Gain	15 dB (±0,5 dB)
Frequency response	typ. ± 0,5 dB (max. ± 0,8 dB)
cable simulator downstream	0/5/10 dB (Jumper)
Attenuator downstream	0...15 dB (Q-Step 1dB step size)
Equalizer downstream	0...22,5 dB (Q-Step 1.5 dB step size)
output level CC 101 channels flat	CTB / 66 dB ≥ 97 dBμV, CSO / 66 dB ≥ 95 dBμV
Noise figure	typ. 6 dB (max. 8 dB)
Test point downstream output	-20 dB (directional coupler)
Upstream	
with US-module VX 101-0650	
Frequency range	5...65 MHz
Return loss	≥ 18 dB ≥ 40 MHz 18 dB -1,5dB/Okt.
Frequency response	typ. ± 0,5 dB (max. ± 0,8 dB)
Attenuator upstream output	0...15 dB (Q-Step 1dB step size)
noise figure	< 6 dB
output level DIN - IMA 2	typ. 108 min. 106 dBμV
output level DIN - IMA 3	typ. 114 min 112 dBμV
ICS Option	(slot for receiver EN60728-14)
Ingress Control Switch (ICS)	0/6/40 dB
General data	
RF connectors	F
Impedance	75 Ω
Supply voltage	230 V AC
Power consumption max.	< 6 W
Ambient temperature	-20...+55 °C
Protection class	IP 20
EMC	EN50083-2
Surge protection RF Ports	1,2/50 μs pulse EN61000-4-5)

Technische Daten

Dimensions (width x height x depth)	163 x 90 x 47 mm
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characteristics

- Zinc pressure cast housing - home line
- Return path amplifier and diplex-filter modular
- ICS option modular
- Damping adjustment and equaliser adjustment interruption-free with Q-step switcher

In-house distribution amplifier Home Line



VX 1020

In-house amplifier



Technische Daten	
Downstream	
with US-module VX 102-0650	
Frequency range	85...1006 MHz (without US-module)
Return loss	≥ 18 dB (-1,5 dB/Oct.)
Gain	21 dB (±0,5 dB)
Frequency response	typ. ± 0,5 dB (max. ± 0,8 dB)
cable simulator downstream	0/5/10 dB (Jumper)
Attenuator downstream	0...15 dB (Q-Step 1dB step size)
Equalizer downstream	0...22,5 dB (Q-Step 1.5 dB step size)
Interstage Slope	0/4,5 dB (Jumper)
output level CC 101 channels flat	CTB / 66 dB ≥ 100 dBμV, CSO / 66 dB ≥ 100 dBμV
Noise figure	typ. 6 dB max. 7,5 dB
Test point downstream output	-20 dB (directional coupler)
Test point downstream input	-20 dB (Bidirectional)
Upstream	
with US-module VX 102-0650	
Return loss	≥ 18 dB ≥ 40 MHz 18 dB -1,5dB/Okt.
Gain	22 dB ± 0,75 dB, (Jumper 22/30dB)
Frequency response	typ. ± 0,5 dB max. ± 0,7 dB
Attenuator upstream output	0...22,5 dB (Q-Step 1.5 dB step size)
interstage equaliser upstream	0/1,5/3/4,5/6 dB (Jumper)
noise figure	<6 dB (22 dB-position), <4,5 dB (30 dB-position)
output level DIN - IMA 2	typ. 108 min. 106 dBμV
output level DIN - IMA 3	typ. 114 min. 112 dBμV
ICS Option	(slot for receiver EN60728-14)
Ingress Control Switch (ICS)	0/6/40 dB
General data	
RF connectors	F
Impedance	75 Ω

Technische Daten	
Supply voltage	230 V AC
Protection class	IP 20
EMC	EN50083-2
Surge protection RF Ports	2 kV (1,2/50 μs pulse EN61000-4-5)
Dimensions (width x height x depth)	163 x 90 x 47 mm

characteristics

- Zinc pressure cast housing - home line
- Return path amplifier and diplex-filter modular
- ICS option modular
- Damping adjustment and equaliser adjustment interruption-free with Q-step switcher

In-house distribution amplifier Home Line

VX 2015 065

Building CATV Amplifier 1,2 GHz



The VX 2015 is a location feeding in-house amplifier with a frequency range up to 1.2 GHz. It has an active output and a measuring socket on the input and output. Diplex filter and return path amplifier are grouped together on a module (VX201-xxx) and available in the versions 65 MHz, 85 MHz and 204 MHz. All settings are done without interruption with Q-step switch or jumper. In addition, a high pass filter XE-xx can be plugged in the return path to influence the ingress influences.

Technische Daten	
Downstream	
Frequency range	85...1218 MHz
Gain	15 dB ($\pm 0,7$ dB)
Ripple	$\leq \pm 0,8$ dB
Noise figure	$<7,0$ dB @ 1 GHz, $<8,0$ dB @ 1,2 GHz
Output level	101 dB μ V (CENELEC 41 Ch. (CSO/CTB ≥ 60 dB), flat)
Output level	100 dB μ V (110 Ch/QAM 256, flat, BER <1 E-9)
Output level	100 dB μ V (all QAM (138 x 256 QAM), EN60728-3-1, flat)
Input cable simulator	0/5/10 dB (Jumper)
Input attenuator	0...15 dB (Rotary switch 15 Steps)
Step size	1 dB
Input equalizer	0...30 dB / 1218 MHz Drehpunkt (Rotary switch 15 Steps)
Step size	2 dB
Interstage equalizer (Slope)	0/2/4 dB (Jumper)
Test point	-20 dB
Upstream	
High pass filter pluggable (optional)	15 MHz (WISI - XE04/0150)
Gain	21 dB ($\pm 0,7$ dB)
Ripple	$\pm 0,5$ dB
Noise figure	$<8,5$ dB
Output level	110 dB μ V (6 x 256 QAM)
Interstage attenuator	0...15 dB (Rotary switch 15 Steps)
Step size	1 dB
Interstage equalizer	0/2/4/6/8 dB (Jumper)
Output attenuator	0/10 dB (Jumper)
Output equalizer	0/6 dB (Jumper)
Ingress control switch (optional)	nach ICS EN 60728-14
Test point	-20 dB
General data	
RF connectors	F

Technische Daten	
Impedance	75 Ω
In/Output return loss	5...40 MHz >16 , >40 MHz -1,5dB Oktave, >12
Supply voltage	230 V AC ± 10 %
Power consumption	<6 W
Ambient temperature	-20...+55 $^{\circ}$ C
Protection class	IP 20
EMC	EN50083-2
Surge protection RF Ports	2 kV (1,2/50 μ s pulse EN61000-4-5)
Dimensions W x H x D	163 x 90 x 50 mm

characteristics

- High output level up to 1.2 GHz, with low power consumption
- Active single output
- Measuring socket for input and output
- All settings (gain, slope etc.) by rotary switch and Jumper
- Diplex filters, return amplifier pluggable on one module
- Optional - receiver according to EN 60728-14 for ICS-settings
- Optional - pluggable high pass filter at the return path channel
- Low power input <6 W

In-house distribution amplifier Home Line



VX 2015 204

Building CATV Amplifier 1,2 GHz



The VX 2015 is a location feeding in-house amplifier with a frequency range up to 1.2 GHz. It has an active output and a measuring socket on the input and output. Diplex filter and return path amplifier are grouped together on a module (VX201-xxx) and available in the versions 65 MHz, 85 MHz and 204 MHz. All settings are done without interruption with Q-step switch or jumper. In addition, a high pass filter XE-xx can be plugged in the return path to influence the ingress influences.

Technische Daten	
Downstream	
Frequency range	258...1218 MHz
Gain	15 dB ($\pm 0,7$ dB)
Ripple	$\leq \pm 0,8$ dB
Noise figure	<7,0 dB @ 1 GHz, <8,0 dB @ 1,2 GHz
Output level	101 dB μ V (CENELEC 41 Ch. (CSO/CTB ≥ 60 dB), flat)
Output level	100 dB μ V (110 Ch/QAM 256, flat, BER <1 E-9)
Output level	100 dB μ V (all QAM (138 x 256 QAM), EN60728-3-1, flat)
Input cable simulator	0/5/10 dB (Jumper)
Input attenuator	0...15 dB (Rotary switch 15 Steps)
Step size	1 dB
Input equalizer	0...30 dB/1218 MHz Drehpunkt (Rotary switch 15 Steps)
Step size	2 dB
Interstage equalizer (Slope)	0/2/4 dB (Jumper)
Test point	-20 dB
Upstream	
High pass filter pluggable (optional)	15 MHz (WISI - XE04/0150)
Gain	21 dB ($\pm 0,8$ dB)
Ripple	$\pm 0,5$ dB
Noise figure	<8,5 dB
Output level	110 dB μ V (6 x 256 QAM)
Interstage attenuator	0...15 dB (Rotary switch 15 Steps)
Step size	1 dB
Interstage equalizer	0/2/4/6/8 dB (Jumper)
Output attenuator	0/10 dB (Jumper)
Output equalizer	0/6 dB (Jumper)
Ingress control switch (optional)	nach ICS EN 60728-14
Test point	-20 dB
General data	
RF connectors	F

Technische Daten	
Impedance	75 Ω
In/Output return loss	5...40 MHz >16, >40MHz -1,5dB Oktave, >12
Supply voltage	230 V AC ± 10 %
Power consumption	< 6 W
Ambient temperature	-20...+55 $^{\circ}$ C
Protection class	IP 20
EMC	EN50083-2
Surge protection RF Ports	2 kV (1,2/50 μ s pulse EN61000-4-5)
Dimensions W x H x D	163 x 90 x 50 mm

characteristics

- High output level up to 1.2 GHz, with low power consumption
- Active single output
- Measuring socket for input and output
- All settings (gain, slope etc.) by rotary switch and Jumper
- Diplex filters, return amplifier pluggable on one module
- Optional - receiver according to EN 60728-14 for ICS-settings
- Optional - pluggable high pass filter at the return path channel
- Low power input <6 W

HFC amplifier Compact Line

VX 52 A

Universal line amplifier, locally supplied



The VX 52 A is a Universal line local feeding amplifier that has 2 active outputs and slots for feedback channel amplifiers, diplex filter modules and distributor/splitter modules. In addition, it has an incorporated VX 58 ASC module. All settings are adjusted via OH 41 or LMT (laptop).

Technische Daten	
Downstream	
Inputs	1 pcs.
Input measurement socket	20 dB
Input return loss	>20 dB
Frequency range downstream	47/85...1006 MHz (depending on diplexers)
Gain downstream	41(37) dB (with VX 58 for control range ASLC)
Noise figure downstream	≤6,5 dB
Attenuator downstream	0...15 dB (0,1 dB-steps)
Equalizer downstream	0...15 dB (0,1 dB-steps)
Interstage attenuator downstream	0/5/10 dB
Interstage equalizer downstream	0/6/9 dB
Output level 1	111 dBμV (CENELEC 42 channels, flat, at CSO/CTB >60 dB)
Output level 2	114 dBμV (CENELEC 42 channels, 6 dB slope, at CSO/CTB >60 dB)
Output test point	20 dB
Output return loss	>20 dB
Output splitter	1 pcs. (Output level -4 dB with output splitter)
Upstream	
Frequency range upstream	5...30/65 MHz (depending on diplexers)
Gain upstream	30 dB
Noise figure upstream	≤7 dB
Attenuator upstream input	0...30 dB (0,1 dB-steps)
Attenuator upstream output	0...30 dB (0,1 dB-steps)
Equalizer US	0...10 dB (0,5 dB steps)
Output level 4	116 dBμV
ICS, US	0/-8/-45 dB
Upstream test point	20 dB
Connectors	
PG11	4 pcs.
General data	

Technische Daten	
Operating voltage AC	180...265 V (50/60 Hz)
Power consumption	23/21 W (with/without transponder)
Screening factor	Class A, EN 50083-2
Dimensions (width x height x depth)	261x215x100,4 mm
Operating temperature range	-20...+55 °C
Protection class	IP66
Lightning protection	6 kV at all inputs and outputs

characteristics

- Active single output
- All settings with OH 41 A handset or LMT (laptop) when using a HMS-transponder
- Interface for NMS-function
- Diplex filters and splitter / tap modules pluggable
- Return channel amplifier pluggable
- ASC module VX 58

HFC amplifier Compact Line



VX 53 A

Universal line amplifier, remote supplied



The VX 53 A is a Universal line remote feeding amplifier that has 1 active output and slots for feeding channels. In addition, it has an incorporated VX 58 ASC module. All settings are adjusted via OH 41 or LMT (laptop).

Technische Daten	
Downstream	
Inputs	1 pcs.
Input measurement socket	20 dB
Input return loss	>20 dB
Frequency range downstream	47/85...1006 MHz
Gain downstream	41(37) dB (with VX 58 for control range ASLC)
Noise figure downstream	≤6,5 dB
Attenuator downstream	0...15 dB (0,1 dB-steps)
Equalizer downstream	0...15 dB (0,1 dB-steps)
Interstage attenuator downstream	0/5/10 dB
Interstage equalizer downstream	0/6/9 dB
Output level 1	1x 111 dBμV (CENELEC 42 channels, flat, at CSO/CTB >60 dB)
Output level 2	1x 114 dBμV (CENELEC 42 channels, 6 dB slope, at CSO/CTB >60 dB)
Output test point	20 dB
Output return loss	>20 dB
Output splitter	1 pcs. (Output level -4 dB with output splitter)
Upstream	
Frequency range upstream	5...30/65 MHz (depending on diplexers)
Gain upstream	30 dB
Noise figure upstream	≤7 dB
Attenuator upstream input	0...30 dB (0,1 dB-steps)
Attenuator upstream output	0...30 dB (0,1 dB-steps)
Equalizer US	0...10 dB (0,5 dB steps)
Output level 4	116 dBμV
ICS, US	0/-8/-45 dB
Upstream test point	20 dB
Connectors	
PG11	4 pcs.
General data	

Technische Daten	
Operating voltage AC	27...65 V (50/60 Hz)
Power consumption	23/21 W (with/without transponder)
Screening factor	Class A, EN 50083-2
Dimensions (width x height x depth)	261x215x100,4 mm
Operating temperature range	-20...+55 °C
Protection class	IP66
Lightning protection	6 kV at all inputs and outputs

characteristics

- Active single output
- All settings with OH 41 A handset or LMT (laptop) when using a HMS-transponder
- Interface for NMS-function
- Diplex filters and splitter / tap modules pluggable
- Return channel amplifier pluggable
- ASC module VX 58

HFC amplifier Compact Line

VX 54 A

Universal line amplifier, locally supplied



The VX 54 A is a Universal line location feeding amplifier that has 1 active output and slots for feeding channels. In addition, it has an incorporated VX 58 ASC module. All settings are adjusted via OH 41 or LMT (laptop).

Technische Daten	
Downstream	
Inputs	1 pcs.
Input measurement socket	20 dB
Input return loss	>20 dB
Frequency range downstream	47/85...1006 MHz
Gain downstream	33(29) dB (with VX 58 for control range ASLC)
Noise figure downstream	≤6,5 dB
Attenuator downstream	0...15 dB (0,1 dB-steps)
Equalizer downstream	0...15 dB (0,1 dB-steps)
Interstage attenuator downstream	0/5/10 dB
Interstage equalizer downstream	0/6/9 dB
Output level 1	111 dB μ V (CENELEC 42 channels, flat, at CSO/CTB >60 dB)
Output level 2	114 dB μ V (CENELEC 42 channels, 6 dB slope, at CSO/CTB >60 dB)
Output test point	20 dB
Output return loss	>20 dB
Output splitter	1 pcs. (Output level -4 dB with output splitter)
Upstream	
Frequency range upstream	5...30/65 MHz (depending on diplexers)
Gain upstream	30 dB
Noise figure upstream	≤7 dB
Attenuator upstream input	0...30 dB (0,1 dB-steps)
Attenuator upstream output	0...30 dB (0,1 dB-steps)
Equalizer US	0...10 dB (0,5 dB steps)
Output level 3	116 dB μ V (EN 50083-5 US)
ICS, US	0/-8/-45 dB
Upstream test point	20 dB
Connectors	
PG11	4 pcs.
General data	
Operating voltage AC	180...265 V (50/60 Hz)

Technische Daten	
Power consumption	22/20 W (with/without transponder)
Screening factor	Class A, EN 50083-2
Dimensions (width x height x depth)	261x215x100,4 mm
Operating temperature range	-20...+55 °C
Protection class	IP66
Lightning protection	6 kV at all inputs and outputs

characteristics

- Active single output
- All settings with OH 41 A handset or LMT (laptop) when using a HMS-transponder
- Interface for NMS-function
- Diplex filters and splitter / tap modules pluggable
- Return channel amplifier pluggable
- ASC module VX 58

HFC amplifier Compact Line



VX 55 A

Universal line amplifier, remote supplied



The VX 55 A is a Universal line remote feeding amplifier that has 1 active output and slots for feeding channels. In addition, it has an incorporated VX 58 ASC module. All settings are adjusted via OH 41 or LMT (laptop).

Technische Daten	
Downstream	
Inputs	1 pcs.
Input measurement socket	20 dB
Input return loss	>20 dB
Frequency range downstream	47/85...1006 MHz
Gain downstream	33(29) dB (with VX 58 for control range ASLC)
Noise figure downstream	≤6,5 dB
Attenuator downstream	0...15 dB (0,1 dB-steps)
Equalizer downstream	0...15 dB (0,1 dB-steps)
Interstage attenuator downstream	0/5/10 dB
Interstage equalizer downstream	0/6/9 dB
Output level 1	111 dBμV (CENELEC 42 channels, flat, at CSO/CTB >60 dB)
Output level 2	114 dBμV (CENELEC 42 channels, 6 dB slope, at CSO/CTB >60 dB)
Output test point	20 dB
Output return loss	>20 dB
Output splitter	1 pcs. (Output level -4 dB with output splitter)
Upstream	
Frequency range upstream	5...30/65 MHz (depending on diplexers)
Gain upstream	30 dB
Noise figure upstream	≤7 dB
Attenuator upstream input	0...30 dB (0,1 dB-steps)
Attenuator upstream output	0...30 dB (0,1 dB-steps)
Equalizer US	0...10 dB (0,5 dB steps)
Output level 3	116 dBμV (EN 50083-5 US)
ICS, US	0/-8/-45 dB
Upstream test point	20 dB
Connectors	
PG11	4 pcs.
General data	
Operating voltage AC	27...65 V (50/60 Hz)

Technische Daten	
Power consumption	22 / 20 W (with/without transponder)
Screening factor	Class A, EN 50083-2
Dimensions (width x height x depth)	261x215x100,4 mm
Operating temperature range	-20...+55 °C
Protection class	IP66
Lightning protection	6 kV at all inputs and outputs

characteristics

- Active single output
- All settings with OH 41 A handset or LMT (laptop) when using a HMS-transponder
- Interface for NMS-function
- Diplex filters and splitter / tap modules pluggable
- Return channel amplifier pluggable
- ASC module VX 58

HFC amplifier Compact Line

VX 56 A

Universal line amplifier, locally supplied



The VX 56 A is a Universal line location feeding amplifier that has 2 active output and slots for feeding channels. In addition, it has an incorporated VX 58 ASC module. All settings are adjusted via OH 41 or LMT (laptop).

Technische Daten	
Downstream	
Inputs	1 pcs.
Input measurement socket	20 dB
Input return loss	>20 dB
Frequency range downstream	47/85...1006 MHz
Gain downstream	2x 39,5 dB (with XM 51 A (4/4 dB))
Noise figure downstream	≤6,5 dB
Attenuator downstream	0...15 dB (0,1 dB-steps)
Equalizer downstream	0...15 dB (0,1 dB-steps)
Interstage attenuator downstream	0/5/10 dB
Interstage equalizer downstream	0/6/9 dB
Output level 1	2x 111 dB μ V (CENELEC 42 channels, flat, at CSO/CTB >60 dB)
Output level 2	2x 114 dB μ V (CENELEC 42 channels, 6 dB slope, at CSO/CTB >60 dB)
Output test point	20 dB
Output return loss	>20 dB
Output splitter	1 pcs.
Upstream	
Frequency range upstream	5...30/65 MHz (depending on diplexers)
Gain upstream	26 dB
Noise figure upstream	≤10 dB
Attenuator upstream input	0...30 dB
Attenuator upstream output	dB
Equalizer US	0...10 dB
Output level 4	116 dB μ V
ICS, US	0/-8/-45 dB (switchable)
Upstream test point	20 dB
Connectors	
PG11	4 pcs.
General data	
Operating voltage AC	180...265 V (50/60 Hz)

Technische Daten	
Power consumption	33/31 W (with/without transponder)
Screening factor	Class A, EN 50083-2
Dimensions (width x height x depth)	261x215x100,4 mm
Operating temperature range	-20...+50 °C
Protection class	IP66
Lightning protection	6 kV (EN61000-4-5, 1,2/50 μ s pulse)

characteristics

- Two active outputs
- All settings with OH 41 A handset or LMT (laptop) when using a HMS-transponder
- Interface for NMS-function
- Diplex filters and splitter / tap modules pluggable
- Return channel amplifier pluggable
- ASC module VX 58

HFC amplifier Compact Line



VX 57 A

Universal line amplifier, remote supplied



The VX 57 A is a Universal line remote feeding amplifier that has 2 active output and slots for feeding channels. In addition, it has an incorporated VX 58 ASC module. All settings are adjusted via OH 41 or LMT (laptop).

Technische Daten	
Downstream	
Inputs	1 pcs.
Input measurement socket	20 dB
Input return loss	>20 dB
Frequency range downstream	47/85...1006 MHz
Gain downstream	2x 39,5 dB (with XM 51 A (4/4 dB))
Noise figure downstream	≤6,5 dB
Attenuator downstream	0...15 dB (0,1 dB-steps)
Equalizer downstream	0...15 dB (0,1 dB-steps)
Interstage attenuator downstream	0/5/10 dB
Interstage equalizer downstream	0/6/9 dB
Output level 1	2x 111 dB μ V (CENELEC 42 channels, flat, at CSO/CTB >60 dB)
Output level 2	2x 114 dB μ V (CENELEC 42 channels, 6 dB slope, at CSO/CTB >60 dB)
Output test point	20 dB
Output return loss	>20 dB
Output splitter	1 pcs.
Upstream	
Frequency range upstream	5...30/65 MHz (depending on diplexers)
Gain upstream	26 dB
Noise figure upstream	≤10 dB
Attenuator upstream input	0...30 dB
Attenuator upstream output	0...30 dB
Equalizer US	0...10 dB
Output level 4	116 dB μ V
ICS, US	0/-8/-45 dB (switchable)
Upstream test point	20 dB
Connectors	
PG11	4 pcs.
General data	
Operating voltage AC	27...65 V (50/60 Hz)

Technische Daten	
Power consumption	33/31 W (with/without transponder)
Screening factor	Class A, EN 50083-2
Dimensions (width x height x depth)	261x215x100,4 mm
Operating temperature range	-20...+50 °C
Lightning protection	6 kV (EN61000-4-5, 1,2/50 μ s pulse)

characteristics

- Two active outputs
- All settings with OH 41 A handset or LMT (laptop) when using a HMS-transponder
- Interface for NMS-function
- Diplex filters and splitter / tap modules pluggable
- Return channel amplifier pluggable
- ASC module VX 58

Accessories Value Line

XP 0000

Attenuator pad, 0 dB



Technische Daten	
Through loss	0 dB
Frequency range	5...1006 MHz

XP 0002

Attenuator pad, 2 dB



Technische Daten	
Through loss	2 dB
Frequency range	5...1006 MHz

XP 0004

Attenuator pad, 4 dB



Technische Daten	
Through loss	4 dB
Frequency range	5...1006 MHz

XP 0001

Attenuator pad, 1 dB



Technische Daten	
Through loss	1 dB
Frequency range	5...1006 MHz

XP 0003

Attenuator pad, 3 dB



Technische Daten	
Through loss	3 dB
Frequency range	5...1006 MHz

XP 0005

Attenuator pad, 5 dB



Technische Daten	
Through loss	5 dB
Frequency range	5...1006 MHz

Accessories Value Line



XP 0006

Attenuator pad, 6 dB



Technische Daten

Through loss	6 dB
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XP 0008

Attenuator pad, 8 dB



Technische Daten

Through loss	8 dB
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XP 0010

Attenuator pad, 10 dB



Technische Daten

Through loss	10 dB
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XP 0007

Attenuator pad, 7 dB



Technische Daten

Through loss	7 dB
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XP 0009

Attenuator pad, 9 dB



Technische Daten

Through loss	9 dB
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XP 0011

Attenuatorpad, 11 dB



Technische Daten

Through loss	11 dB
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Accessories Value Line

XP 0012

Attenuator pad, 12 dB



Technische Daten

Through loss	12 dB
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XP 0014

Attenuator pad, 14 dB



Technische Daten

Through loss	14 dB
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XP 0016

Attenuator pad, 16 dB



Technische Daten

Through loss	16 dB
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XP 0013

Attenuator pad, 13 dB



Technische Daten

Through loss	13 dB
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XP 0015

Attenuator pad, 15 dB



Technische Daten

Through loss	15 dB
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XP 0017

Attenuator pad, 17 dB



Technische Daten

Through loss	17 dB
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Accessories Value Line



XP 0018

Attenuator pad, 18 dB



XP 0020

Attenuator path, 20 dB



XP 0019

Attenuator pad, 19 dB



Technische Daten

Through loss	18 dB
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Technische Daten

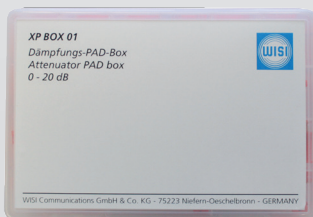
Through loss	20 dB
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Technische Daten

Through loss	19 dB
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XP BOX 01

attenuator pad set 0...20 dB



XE 54 A

System equalizer



XE 29

power supply connector for VX 29



Technische Daten

Through loss	0...20 dB (single Pads with the measurements 0...20 dB)
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Technische Daten

Equalization	2 dB (Increase of the frequency range 47...200/300...600 MHz)
--------------	---

Accessories Value Line

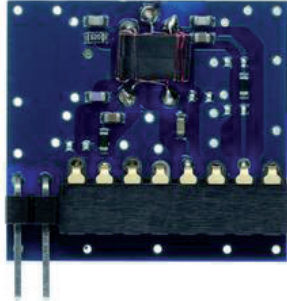
XPU 020

attenuator pad, 0...20 dB, adjustable



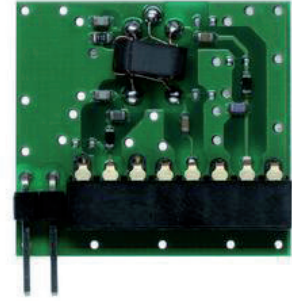
XM 25 0082

Output tap pluggable



XM 25 0131

Output tap pluggable



Technische Daten

Through loss	0...20 dB (adjustable)
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Technische Daten

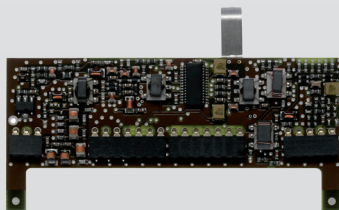
Through loss	2/8 dB
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Technische Daten

Through loss	1/13 dB
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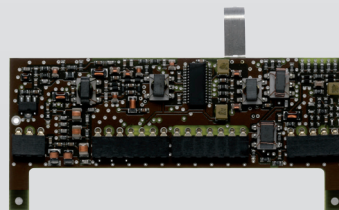
VX 27 A 1200

Retun path module active



VX 27 A

Retun path module active



XE 20 B 0650

Diplexer 65/85 MHz





VX 201 065

Return amplifier



VX 201 204

Return amplifier



Technische Daten

Downstream

Frequency range	85...1218 MHz	258...1218 MHz
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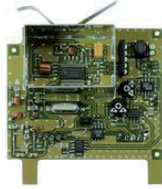
Upstream

Frequency range	5...65 MHz	5...204 MHz
High pass filter pluggable	15 MHz (WISI - XE04/0150)	15 MHz (WISI - XE04/0150)
Gain	VX 2015/2022: 21 dB ($\pm 0,8$ dB), VX 2030/2035: 29 dB (± 1 dB)	VX 2015/2022: 21 dB ($\pm 0,8$ dB), VX 2030/2035: 29 dB (± 1 dB)
Ripple	$\pm 0,5$ dB	$\pm 0,5$ dB
Noise figure	VX 2015/2022: $< 8,5$ dB, VX 2030/2035: $< 6,5$ dB	VX 2015/2022: $< 8,5$ dB, VX 2030/2035: $< 6,5$ dB
Output level	110 dB μ V (6 x 256 QAM)	107 dB μ V (24 x 256 QAM)
Interstage attenuator	0...15 dB (Rotary switch 15 Steps)	0...15 dB (Rotary switch 15 Steps)
Step size	1 dB	1 dB
Interstage equalizer	0/2/4/6/8 dB (Jumper)	0/2/4/6/8 dB (Jumper)
Output attenuator	0/10 dB (Jumper)	0/10 dB (Jumper)
Output equalizer	0/6 dB (Jumper)	0/6 dB (Jumper)
Ingress control switch ICS EN 60728	0/-6/ $<$ -45 dB	0/-6/ $<$ -45 dB

Accessories Compact Line

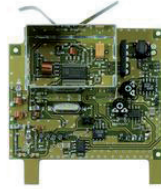
VX 58 0407

Pilot detector



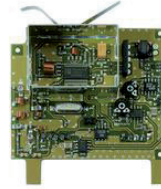
VX 58 0607

Pilot detector



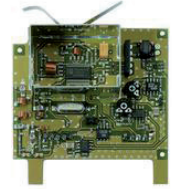
VX 58 0703

Pilot detector



VX 58 0855

Pilot detector



Technische Daten

Upper pilot frequency	287,25...407,25 MHz	415,25...607,25 MHz	615,25...703,25 MHz	711,25...855,25 MHz
Pilot frequency below	110,25...140,25 MHz	110,25...140,25 MHz	110,25...140,25 MHz	110,25...140,25 MHz
Control range	±0,9 dB (47 MHz)	±0,9 dB (47 MHz)	±0,9 dB (47 MHz)	±0,9 dB (47 MHz)
Control range	±2,9 dB (470 MHz)	±2,9 dB (470 MHz)	±2,0 dB (470 MHz)	±2,0 dB (470 MHz)
Control range	±3,4 dB (606 MHz)	±3,4 dB (606 MHz)	±3,4 dB (606 MHz)	±3,4 dB (606 MHz)
Control range	±4 dB (862 MHz)	±4 dB (862 MHz)	±4 dB (862 MHz)	±4 dB (862 MHz)
Control range	±4 dB (47...862 MHz)	±4 dB (47...862 MHz)	±4 dB (47...862 MHz)	±4 dB (47...862 MHz)

Accessories Compact Line



XE 50 A 0650

Diplexer 65/85 MHz



Technische Daten	
Frequency range high-pass	85...1006 MHz
Frequency range low-pass	5...65 MHz
Impedance	75 Ω

XE 52 A

Equalizer module



Technische Daten	
Frequency range	47...1006 MHz
Equalization	12/18 dB
Impedance	75 Ω

XM 51 A

Splitter



Technische Daten	
Frequency range	5...1006 MHz
Impedance	75 Ω
Distribution loss	4 dB
Isolation	≥ 20 dB

XE 51 A

Equalizer module



Technische Daten	
Frequency range	47...1006 MHz
Equalization	3/9 dB
Impedance	75 Ω

XE 57

cable simulator downstream



Technische Daten	
Frequency range	85...862 MHz
Impedance	75 Ω
Equalization	6/9 dB (Cable imitation)

XM 53

Splitter



Technische Daten	
Frequency range	5...1006 MHz
TAP loss	8 dB
Through loss	2 dB
Isolation	> 25 dB

Accessories Compact Line

XM 55

Splitter



XE 50 B 2040

Diplexfilter 204/258 MHz



XM 56 B

Tap 18/1 dB



Technische Daten

Frequency range	5...1006 MHz
TAP loss	13 dB
Through loss	1 dB
Isolation	> 30 dB

Technische Daten

Upstream	
Frequency range low-pass	5...204 MHz
Through loss	<1 dB
Return loss	>20 dB
Rejection	>40 dB
Group delay time	<3 ns/2 MHz
Downstream	
Frequency range high-pass	258...1218 MHz
Through loss	<1 dB
Return loss	>20 dB

Technische Daten

Frequency range	5...1218 MHz
TAP loss	<19 dB
Through loss	<1,4 dB
Isolation	>28 dB
Return loss 5...1006 MHz	>18 dB
Return loss 1006...1218 MHz	>16 dB

XM 56

Splitter



Technische Daten

Frequency range	5...1006 MHz
TAP loss	18 dB
Through loss	1 dB
Isolation	> 30 dB

Accessories Compact Line



XM 55 B

Tap 13/1 dB



XM 53 B

Tap 8/2 dB



XM 51 B

Splitter 4/4 dB



Technische Daten

Frequency range	5...1218 MHz
TAP loss	<13,5 dB
Through loss	<1,4 dB
Isolation	>28 dB
Return loss 5...1006 MHz	>18 dB
Return loss 1006...1218 MHz	>16 dB

Technische Daten

Frequency range	5...1218 MHz
TAP loss	<9 dB
Through loss	<2 dB
Isolation	> 25 dB
Return loss 5...1006 MHz	>18 dB
Return loss 1006...1218 MHz	>16 dB

Technische Daten

Frequency range	5...1218 MHz
Impedance	75 Ω
Distribution loss	<4,5 dB
Isolation	≥ 20 dB
Return loss 5...1006 MHz	>18 dB
Return loss 1006...1218 MHz	>16 dB

XE 57 B



XE 51 B

Equalizer module 3/9 dB



XE 52 B

Equalizer module 12/18 dB



Technische Daten

Frequency range	85...1218 MHz
Impedance	75 Ω
	6/9 dB (Cable imitation)
Return loss	>18 dB (Input/Output)

Technische Daten

Frequency range	85...1218 MHz
Equalization	3/9 dB
Impedance	75 Ω
Return loss	>15 dB (Input/Output)

Technische Daten

Frequency range	85...1218 MHz
Equalization	12/18 dB
Impedance	75 Ω
Return loss	>15 dB (Input/Output)



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