

DISTRIBUTION AMPLIFIER

LAMBDA PRO 20 is a modern broadband amplifier optimized for applications in distribution part of cable networks.

Very low power consumption is characteristic for LAMBDA PRO 20. This leads to significant investment cost reduction by minimising the number of power supplies used in the network and to extension of operating time on battery power. The amplifier is available in several versions: powered remotely or locally from the mains.

Compact housing of LAMBDA PRO 20 allows to mount the device in very small cabinets. It is a perfect solution for aerial networks as it provides high resistance for environmental factors (IP 65 protection class), which enables outside mounting without any additional casing.

External test points save time needed to perform measurements for network maintenance.

LAMBDA PRO 20 is a very cost-effective solution as it is designed with fixed interstage equalizer and built-in reverse amplifier. Reduced number of necessary plug-in modules results in lower maintenance and operational costs. Amplifier is available in several versions: configured with fixed ATG or adjustable plug-in modules.

All those features make LAMBDA PRO 20 an economical solution while keeping network performance at the highest possible level.

LAMBDA PRO 20



- ▶ Very low power consumption
- ▶ High protection class IP 65
- ▶ Built-in active reverse path and interstage equalizer
- ▶ Fixed or adjustable plug-in modules
- ▶ External test points
- ▶ Compact housing

PRODUCT SPECIFICATIONS

RF PARAMETERS	
Forward bandwidth	85 ÷ 862 MHz
Forward gain @862MHz	38 ± 1 dB
Noise figure	<8.5 dB
Forward flatness ¹	± 0.75 dB
Forward slope ²	6 ± 1 dB
Output level type ³ :	
CTB ≤ -60 dBc	109 dBμV
CSO ≤ -60 dBc	112 dBμV
Return loss ⁴	< -18 dB
Input testpoint (bi-directional)	-20 ± 1.5 dB
Output testpoints (directional)	-20 ± 0.75 dB
Reverse bandwidth	5 ÷ 65 MHz
Reverse flatness	± 0.75 dB
Reverse gain	20 ± 1 dB
HUM modulation	≤ 65 dBc

OTHER	
Weight:	
version F66W / V66W	1,8 kg
version F56M / V56M	1,1 kg
Dimensions	158 x 150 x 69 mm
Protection class	IP 65
Operation temperature range	-40 ÷ +60 °C
AC Voltage range:	
version F66W / V66W	24 ÷ 65 V AC
version F56M / V56M	230 V AC
Power consumption	8 W
Connectors IN/OUT:	
version F66W / V66W	PG11/F
version F56M / V56M	F/F

AVAILABLE VERSIONS

- LAMBDA PRO 20 F66W** - fixed plug-ins, AC voltage range 24 ÷ 65V AC, connectors PG11/F
- LAMBDA PRO 20 F56M** - fixed plug-ins, AC voltage range 230V AC, connectors F/F
- LAMBDA PRO 20 V66W** - variable adjustment, AC voltage range 24 ÷ 65V AC, connectors PG11/F
- LAMBDA PRO 20 V56M** - variable adjustment, AC voltage range 230V AC, connectors F/F

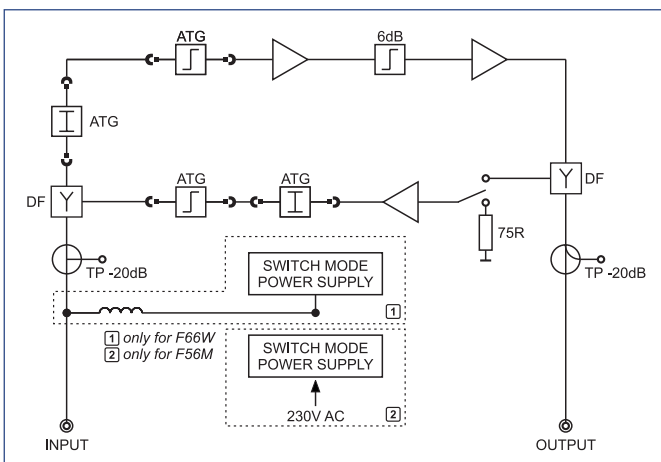
¹ Valid in range 110 ÷ 862MHz

² Measured in range 110 ÷ 862MHz

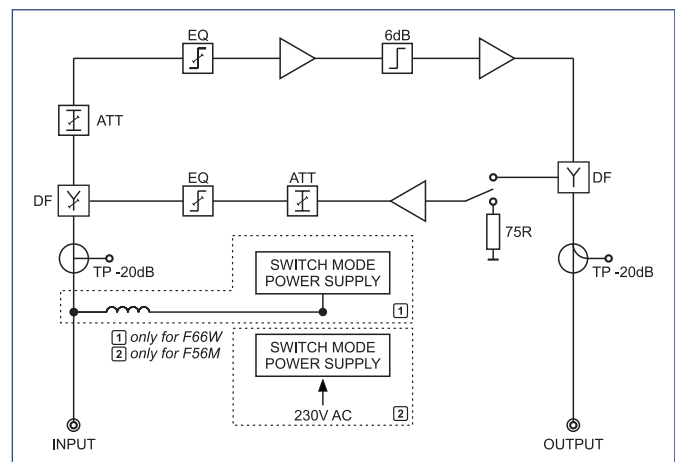
³ With diplex filters 0dB input pad and equalizer, according to EN50083-3, 42 channels CENELEC

⁴ -18dB for f< 40MHz,-18dB +1,5dB/oct. for f>40MHz

BLOCK DIAGRAMS



LAMBDA PRO 20 F56M
LAMBDA PRO 20 F66W



LAMBDA PRO 20 V56M
LAMBDA PRO 20 V66W