



distribution & mini-trunk amplifier

Highlights

- Very high system performance
- Very high output level
- High gain
- Low noise figure (NF)
- Competitive price/performance
- GaAs FET hybrid technology



Applications

- Distribution and mini-trunk amplifier
- Used in bi-directional broadband HFC networks
- For upgrading existing networks or establishing new networks
- Enables more subscribers to be connected to existing equipment; reducing network expansion costs

Key features

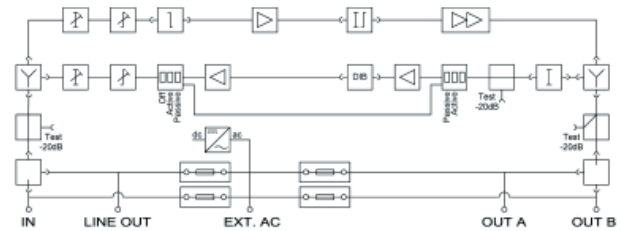
- Very high output level and low power consumption
- Gain and tilt adjustment by adjustable attenuators
- On board input attenuator, equaliser and cable simulator function
- Interstage attenuation and tilt combined in one compact module
- Flexible input and output splitter modules
- Test points (-20 dB) at input (non-directional) and output (directional)
- Flexible return path by plug-in diplexer modules
- On board active or passive return path, selected by a switch
- Return path test point (-20 dB) at input (non-directional)
- Upgradeable with a DIB™ (Dynamic Ingress Blocking™) module
- Mains or line powered with switch mode power supply
- Die-cast aluminium housing meeting IP65 degree of dust and water protection
- 5A AC feed through to any terminal and 10A external AC input terminal
- Excellent surge and transient protection

technical specifications

Accessories

Please refer to separate datasheets / pricelist

- Diplexer Filter Modules: MDA xxxx
- Splitter Module: MS xxx
- Interstage Module: MEX 80x/0x
- Link Module: ML xx
- DIB™ Module: MDIB xx



Please note that the AA 801V2 is supplied with ML02 Link Modules in Input and Output splitter sockets. Minimum configuration requires 2 x Diplexer Filter Modules and 1 x Interstage Module. A jumper is factory mounted in the return path input attenuator socket and in the cable simulator socket.

Technical specifications	Unit	AA 801V2	
Forward path, bandwidth (depending on diplexer modules)	MHz		47 - 862
Gain (8dB gain switch) - 47 / 862MHz	dB	30/30	38/38
Attenuation by adjustable attenuator	dB		0 -18
Equaliser by adjustable attenuator	dB		0 -18
Linearity	dB		± 1
3 rd order (DIN 45004 B)	dBµV		127
2 nd order (DIN 45004 A1)	dBµV		122
CTB (42 ch CENELEC) - flat / 8dB tilt	dBµV		110.5/113
CTB (42 ch CENELEC) by 6 dB interstage att. - flat / 8dB tilt	dBµV		110/112
CSO (42 ch CENELEC)	dBµV		114
Noise Figure - 47 / 862MHz	dB	5/6.5	5/6.5
Noise Figure by 6 dB interstage att. - 47 / 862MHz	dB	6/8	5/7
Return loss, @40MHz	dB		18 -1.5 / oct
Return path, bandwidth (depending on diplexer modules)	MHz		5 - 65
Gain	dB		23
Attenuation by adjustable attenuator	dB		0 - 18
Equaliser by adjustable attenuator	dB		0 - 8
Linearity	dB		± 1
3 rd order (DIN 45004B)	dBµV		119
2 nd order (DIN 45004 A1)	dBµV		110
Noise Figure	dB		6
General	Unit	AA 801V2	
Line power, Voltage	VAC		24 - 65
Line power, Current	mA		870 - 340
Mains power, Voltage	VAC		175 - 260
Power consumption (incl. return path)	W		16
Dimensions - W x H x D	mm		200x180x82
Weight	kg		2
Line powered - type/order no.			AAL 801V2/ 61922
Mains powered - type/order no.			AAM 801V2/ 61923

Note: All specifications are with 0 dB link modules. If other modules are inserted, please correct for insertion loss.