



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 standard attenuator pads
- On board input attenuator, equaliser and cable simulator function by pads
- On board interstage attenuator and equaliser function by pads
- 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

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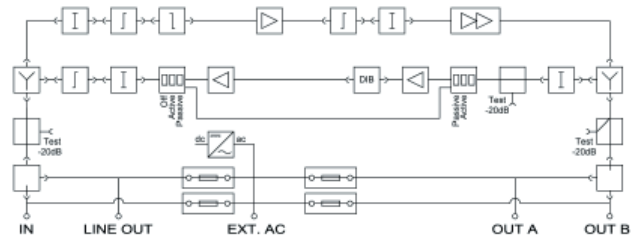
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technical specifications

Accessories

Please refer to separate datasheets / pricelist

- Diplexer Filter Modules: MDA xxxx
- Splitter Module: MS xxx
- Link Module: ML xx
- Pads: JXP-OT2xx
- DIB™ Module: MDIB xxx



Please note that the AA 801V1 is supplied with ML02 Link Modules in Input and Output splitter sockets. Minimum configuration requires 6 x Pads and 2 x Diplexer Filter Modules. A jumper is factory mounted in the return path input attenuator socket and in the cable simulator socket.

Technical specifications	Unit	AA 801V1	
Forward path, bandwidth (depending on diplexer modules)	MHz		47 - 862
Gain (8dB gain switch) - 47 / 862MHz	dB	30/30	38/38
Attenuation by pads	dB		0 -22
Equaliser by pads	dB		0 -18
Linearity	dB		± 1
3 rd order (DIN 45004 B)	dBµV		127
2 nd order (DIN 45004 A1)	dBµV		124
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 pads	dB		0 - 18
Equaliser by pads	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 801V1	
Line power, Voltage	VAC		24 - 65
Line power, Current	mA		870 - 380
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 801V1 / 65870
Mains powered - type/order no.			AAM 801V1 / 65871

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