



Triax Multiband and Distribution Amplifiers for community networks

Flexibility from trunk line to subscriber
in current to future networks

Simply **more**
- more simply





Powerful, reliable and easy to install HFA Distribution Amplifiers

With the HFA series of broadband distribution amplifiers, both the installer and the network operator obtain all the benefits of a quality product: Reliability and a long lifetime, quick installation, effective shielding and the option to use the network for all conceivable interactive services.

The high performance amplifiers are available in versions with different gain levels (22 dB, 30 dB and 40 dB). They all have adjustable gain, variable tilt (0-18 dB) and are available for both line and mains powering.

No plug-in modules are needed for the forward path

Triax' newly developed Automatic Link Pass (ALP) automatically establishes the forward signal ensuring a linear amplification in the entire 47-862 MHz range. No plug-in link modules are needed for forward path, only for the return path.

Passive or active return path - you decide when and how

When the return path is to be used, it is simply done by mounting Diplex plug-in modules on input and output. The type of module inserted determines, whether the return path range is 5-30 MHz, 5-55 MHz or 5-65 MHz, and whether it is passive or active. The return path is automatically established by the ALP function.

If you have chosen a return path range of 5-30 MHz and want to increase it to 5-55 MHz or 5-65 MHz you just exchange the two Diplex plug-in modules. The amplifier is the same and needs not to be replaced.

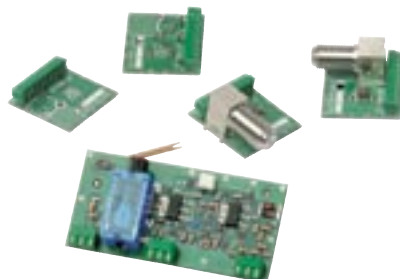
High performance and effective shielding

The amplifiers use push-pull technology, which ensures low distortion and a high output voltage. Input and outputs are efficiently transient protected up to 4 kV.

Few types cover it all

HFA amplifiers are available in 6 versions:

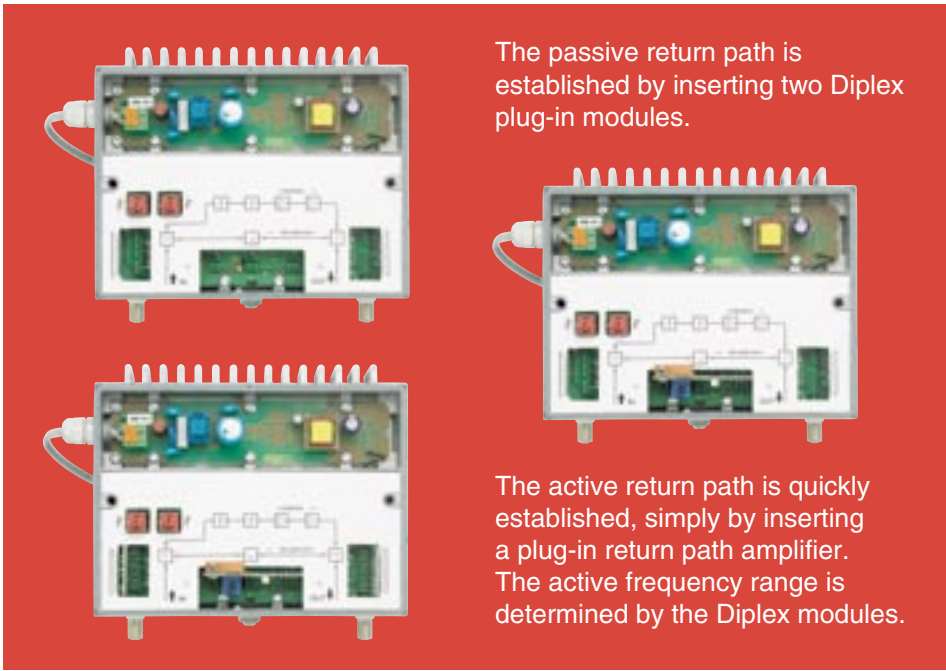
- 22 dB, mains or line powered
- 30 dB, mains or line powered
- 40 dB, mains or line powered



Diplex plug-in modules

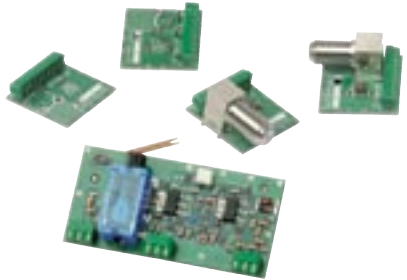
- with or without test point
- with a return path range of 5-30, 5-55 or 5-65 MHz

Active plug-in return path amplifier with 17 dB gain covering the whole return path frequency range at 5-65 MHz is also available.



The passive return path is established by inserting two Dimplex plug-in modules.

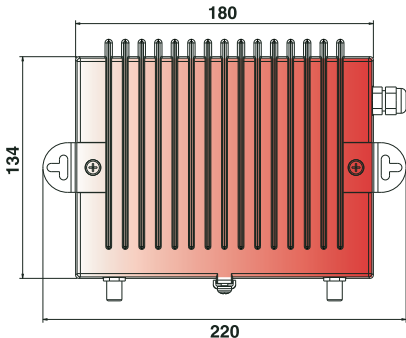
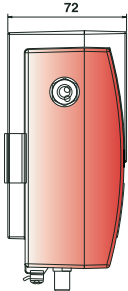
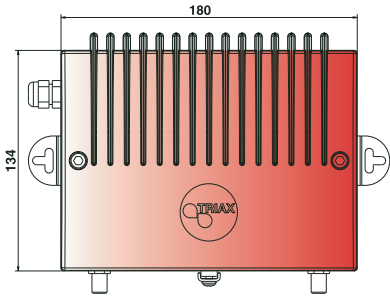
The active return path is quickly established, simply by inserting a plug-in return path amplifier. The active frequency range is determined by the Dimplex modules.



Quality housing ensures long life

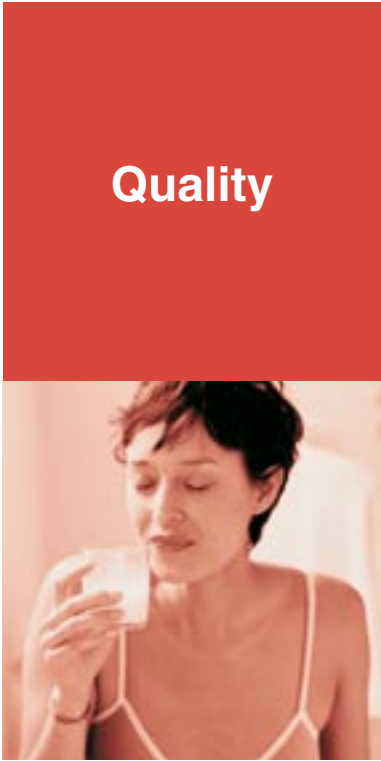
The aluminium die-cast housing of the amplifier offers high mechanical stability and ensures a high shielding factor. Aluminium dissipates the heat much better than comparative materials. This results in a constant value and a long product life. The HFA housing complies with the IP65 requirements for efficient dust and water protection.

The installation of the amplifier can either be left/right or top/bottom. All mounting accessories are delivered with the amplifier.



Efficient switch mode power supply adds to reliability

The switch mode power supply has a high efficiency that minimizes heat generation and power consumption. The excellent transient and surge protection combined with the low operating temperature all contribute to increase and ensure a long lifetime of the amplifier. An LED indicator shows whether the power supply is working correctly.



Quality





Low-cost trouble solving IFA Distribution Amplifiers

At the subscriber end of almost any community network, the installer will need handy and reliable broadband amplifiers to provide signals of sufficient strength to, for example, a distant block of flats or to subscribers wanting outlets in more than one room.

From both a technical and economical point of view Triax IFA amplifiers are ideal for this kind of installation. Relative to their high performance and effective shielding, they are inexpensive and quick to mount anywhere indoors.

Integrated return path for support of interactive services

All amplifiers in the IFA-series have an integrated passive return path to the frequency ranges 5-30, 5-55 or 5-65 MHz. If or when the network has to be used for interactive services such as fast Internet connections, interactive TV or cable telephony, IFA amplifiers will thus support these interactive applications.

High output voltage and transient protection

IFA amplifiers have a very high output voltage of 116 dB μ V or 2 x 112 dB μ V (EN 50083-3). This makes them suitable for aerial systems with many channels. They are transient protected up to 4 kV on all inputs and outputs.

A wide range of solutions

IFA amplifiers are available with 1 or 2 outputs and in 20 dB as well as 30 dB gain variants, all provided with variable attenuator. Moreover, some types have 5-7 dB fixed tilt, others are provided with variable tilt to equalize the uneven attenuation of the low and the high frequencies of the cable.

“Click-on” bracket saves installation time

When the amplifier is to be mounted on a wall or rafter, the rear grey/white bracket is screwed on, cables with F-connectors are screwed on to the amplifier, which can now be clicked on to the rear mounting bracket.

In case of subsequent changes to the cables, the amplifier is easily demounted by pressing down the small ratchet and then pulling the amplifier loose from the rear mounting bracket.



IFA 203 Amplifier
with 2 outputs and
gain adjustment



IFA 231 Amplifier with 1 output, equalizer and gain adjustment

IFA 236 Amplifier with 2 outputs, equalizer and gain adjustment



IFA 205 Amplifier with 1 output, equalizer and gain adjustment

Design and installation

With a modern and elegant design, IFA Distribution Amplifiers are suitable for mounting even inside homes and in situations, where the installation cannot be hidden away in a loft or under a staircase.

Flexibility



Facts about HFA Distribution Amplifiers

Technical Data - Mains powered



HFA 602



HFA 603



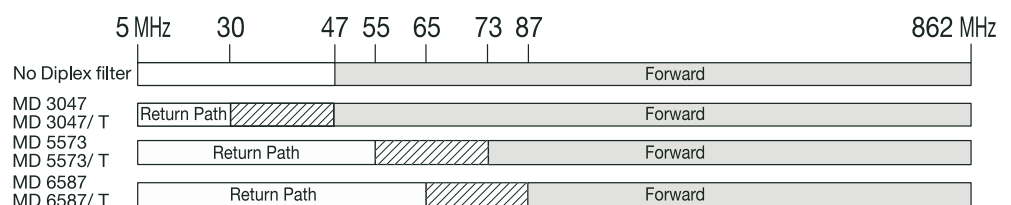
HFA 604

| TYPE | | HFA 602 | HFA 603 | HFA 604 |
|-------------------------------------|------|--|--|--|
| Part No. | | 324602 | 324603 | 324604 |
| Forward Path | | | | |
| Frequency range | MHz | 47, 73 or 87 - 862 (depending on module) | 47, 73 or 87 - 862 (depending on module) | 47, 73 or 87 - 862 (depending on module) |
| Gain adjustable | dB | 22 | 30 | 40 |
| Attenuation | dB | 0 - 20 | 0 - 20 | 0 - 20 |
| Noise figure | dB | < 8.5 (Typical 7.5) | < 7.5 (Typical 6.5) | < 7.0 (Typical 6.0) |
| Linearity | dB | ± 1.0 | ± 1.0 | ± 1.0 |
| Equalization | dB | 0 - 18 | 0 - 18 | 0 - 18 |
| Output level | | | | |
| 60 dB 3 order (DIN 45004B) | dBμV | 118 | 118 | 118 |
| 60 dB 3 order (DIN 45004A1) | dBμV | 112 | 112 | 112 |
| 60 dB CTB ¹⁾ | dBμV | 101 | 101 | 101 |
| 60 dB CSO ¹⁾ | dBμV | 101 | 101 | 101 |
| Return loss input (-1.5 dB/Octave) | dB | >14 @ 40 MHz (Min. 10) | >14 @ 40 MHz (Min. 10) | >14 @ 40 MHz (Min. 10) |
| Return loss output (-1.5 dB/Octave) | dB | >14 @ 40 MHz (Min. 10) | >14 @ 40 MHz (Min. 10) | >14 @ 40 MHz (Min. 10) |
| Return path | | | | |
| Frequency range | MHz | 5-30, 5-55 or 5-65 (depending on module) | 5-30, 5-55 or 5-65 (depending on module) | 5-30, 5-55 or 5-65 (depending on module) |
| Gain (adjustable) | dB | passive -1.0/active 17.0 | | |
| Linearity | dB | ± 1.0 | | |
| Return loss input (-1.5 dB/Octave) | dB | > 14 @ 5 MHz to 65 MHz | > 14 @ 5 MHz to 65 MHz | > 14 @ 5 MHz to 65 MHz |
| Return loss output (-1.5 dB/Octave) | dB | > 14 @ 5 MHz to 65 MHz | > 14 @ 5 MHz to 65 MHz | > 14 @ 5 MHz to 65 MHz |
| General | | | | |
| Power supply type | | Mains powered | Mains powered | Mains powered |
| Power supply | V/AC | 230 ± 10% | 230 ± 10% | 230 ± 10% |
| Power consumption | W | 7.5 | 7.5 | 7.5 |
| Shielding Efficiency VHF | dB | 100 | 100 | 100 |
| Shielding Efficiency UHF | dB | 90 | 90 | 90 |
| Housing - Protection class | | IP65 | IP65 | IP65 |
| Connectors | | F-connectors | F-connectors | F-connectors |
| Certification | | CE | CE | CE |
| Impedance | Ohm | 75 | 75 | 75 |
| Operation temperature range | °C | 0...+55 | 0...+55 | 0...+55 |
| Weight | kg | 1.325 | 1.325 | 1.325 |
| Dimensions (H x D x W) | mm | 145 x 70 x 170 | 145 x 70 x 170 | 145 x 70 x 170 |

1) DIN/EN 50083 Part 3 CTBA (Composite triple beat ratio) @ 60 dB IMR, CENELEC-raster 42 channels

Diplex filter modules

| TYPE | | MD 3047 | MD 3047T | MD 5573 | MD 5573T |
|--------------------------------|------|----------|----------|----------|----------|
| Part No. | | 324681 | 324682 | 324685 | 324686 |
| Frequency range (return path) | MHz | 5 - 30 | 5 - 30 | 5 - 55 | 5 - 55 |
| Frequency range (forward path) | MHz | 47 - 862 | 47 - 862 | 73 - 862 | 73 - 862 |
| Testpoint | dB | - | - 20 | - | - 20 |
| Packing size | pcs. | 2 | 2 | 2 | 2 |



Facts about HFA Distribution Amplifiers

Technical Data - Line powered

| TYPE | | HFA 622L | HFA 623L | HFA 624 L |
|-------------------------------------|------|---|---|---|
| Part No. | | 324622 | 324623 | 324624 |
| Forward Path | | | | |
| Frequency range | MHz | 47, 73 or 87 - 862 (depending on module) | 47, 73 or 87 - 862 (depending on module) | 47, 73 or 87 - 862 (depending on module) |
| Gain adjustable | dB | 22 | 30 | 40 |
| Attenuation | dB | 0 - 20 | 0 - 20 | 0 - 20 |
| Noise figure | dB | < 8.5 (Typical 7.5) | < 7.5 (Typical 6.5) | < 7.0 (Typical 6.0) |
| Linearity | dB | ± 1.0 | ± 1.0 | ± 1.0 |
| Equalization | dB | 0 - 18 | 0 - 18 | 0 - 18 |
| Output level | | | | |
| 60 dB 3 order (DIN 45004B) | dBµV | 118 | 118 | 118 |
| 60 dB 3 order (DIN 45004A1) | dBµV | 112 | 112 | 112 |
| 60 dB CTB ¹⁾ | dBµV | 101 | 101 | 101 |
| 60 dB CSO ¹⁾ | dBµV | 101 | 101 | 101 |
| Return loss input (-1.5 dB/Octave) | dB | >14 @ 40 MHz (Min. 10) | >14 @ 40 MHz (Min. 10) | >14 @ 40 MHz (Min. 10) |
| Return loss output (-1.5 dB/Octave) | dB | >14 @ 40 MHz (Min. 10) | >14 @ 40 MHz (Min. 10) | >14 @ 40 MHz (Min. 10) |
| Return path | | | | |
| Frequency range | MHz | 5-30, 5-55 or 5-65 (depending on module) | 5-30, 5-55 or 5-65 (depending on module) | 5-30, 5-55 or 5-65 (depending on module) |
| Gain | dB | passive -1.0/active 17.0 | | |
| Linearity | dB | ± 1.0 | | |
| Return loss input (-1.5 dB/Octave) | dB | > 14 @5 MHz to 65 MHz | > 14 @5 MHz to 65 MHz | > 14 @5 MHz to 65 MHz |
| Return loss output (-1.5 dB/Octave) | dB | > 14 @5 MHz to 65 MHz | > 14 @5 MHz to 65 MHz | > 14 @5 MHz to 65 MHz |
| General | | | | |
| Power supply type | | Line supply | Line supply | Line supply |
| Power supply | V/AC | 24 - 60 | 24 - 60 | 24 - 60 |
| Power consumption | W | 7.5 | 7.5 | 7.5 |
| Shielding Efficiency VHF | dB | 100 | 100 | 100 |
| Shielding Efficiency UHF | dB | 90 | 90 | 90 |
| Housing - Protection class | | IP65 | IP65 | IP65 |
| Connectors | | F-connectors | F-connectors | F-connectors |
| Certification | | CE | CE | CE |
| Impedance | Ohm | 75 | 75 | 75 |
| Operation temperature range | °C | 0...+55 | 0...+55 | 0...+55 |
| Weight | kg | 1.325 | 1.325 | 1.325 |
| Dimensions (H x D x W) | mm | 145 x 70 x 170 | 145 x 70 x 170 | 145 x 70 x 170 |



HFA 622L



HFA 623L

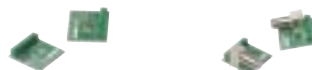


HFA 624L

1) DIN/EN 50083 Part 3 CTBA (Composite triple beat ratio) @ 60 dB IMR, CENELEC-raster 42 channels

Diplex filter modules

| TYPE | | MD 6587 | MD 6587T |
|--------------------------------|-----|----------|----------|
| Part No. | | 324683 | 324684 |
| Frequency range (return path) | MHz | 5 - 65 | 5 - 65 |
| Frequency range (forward path) | MHz | 87 - 862 | 87 - 862 |
| Testpoint | dB | - | - 20 |



Return-path amplifier

| TYPE | | MA 617 |
|-----------------|-----|--------|
| Part No. | | 324617 |
| Frequency range | MHz | 5 - 65 |
| Gain | MHz | 17 |
| Attenuation | dB | 20 |



Line power supply

| TYPE | | TRP |
|--------------------------------|------|----------|
| Part No. | | 416014 |
| Power supply | V/AC | 48 |
| Max. current | A | 1.25 |
| Dimensions (Height x Diameter) | mm | 60 x 100 |



Power inserter with F-con

| TYPE | | TPI - 01 |
|------------------------|-----|----------|
| Part No. | | 347001 |
| Frequency range | MHz | 5 - 2400 |
| Through loss 5-862 MHz | dB | ≤ 0.5 |
| 1000-2150 MHz | dB | ≤ 1.5 |
| Max. current | A | 2.5 |
| Power | V | 65 |



Facts about IFA Distribution Amplifiers

Technical Data

| TYPE | | IFA 201 | IFA 202 | IFA 203 | IFA 205 | IFA 206 |
|------------------------------|------|-------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Part No. | | 339201 | 339202 | 339203 | 339205 | 339206 |
| Forward Path | | | | | | |
| Frequency range | MHz | 47 - 862 | 47 - 862 | 73 - 862 | 87 - 862 | 87 - 862 |
| Gain @47 or 87 MHz/@862 MHz | dB | 2...22 | -4...15/1...20 | -5...13/0...18 | -3...17/2...22 | -7...13/2...18 |
| Noise figure | dB | < 5 (typical 4.5) | < 5 (typical 4.5) | < 6.5 (typical 5.5) | < 8.5 (typical 7.5) | < 8.5 (typical 7.5) |
| Linearity | dB | ± 1.0 | ± 1.0 | ± 1.0 | ± 1.0 | ± 1.0 |
| Slope | dB | | 5.0 | 5.0 | 5 | 5.0 |
| Equalizer | dB | | | | 0 - 18 | 0 - 18 |
| Outputs | pcs | 1 | 2 | 2 | 1 | 2 |
| Output level | | | | | | |
| 60 dB 3 order (DIN 45004B) | dBμV | 116.0 | 2 x 112.0 | 2 x 112.0 | 116.0 | 2 x 112.0 |
| 60 dB 3 order (DIN 45004A1) | dBμV | 102.0 | 2 x 97.0 | 2 x 97.0 | 104.0 | 2 x 100.0 |
| 60 dB CTB ¹⁾ | dBμV | 99.5 | 2 x 95.5 | 2 x 95.5 | 98.5 | 2 x 95.5 |
| 60 dB CSO ¹⁾ | dBμV | 96.5 | 2 x 92.5 | 2 x 92.5 | 96.5 | 2 x 92.5 |
| Return loss (-1.5 dB/Octave) | dB | > 14 @47 MHz | > 14 @47 MHz | > 14 @73 MHz | > 14 @87 MHz | > 14 @87 MHz |
| Return path | | | | | | |
| Frequency range | MHz | 5 - 30 | 5 - 30 | 5 - 55 | 5 - 65 | 5 - 65 |
| Through loss | dB | 0.5 | 4.0 | 4.0 | 1.0 | 4.0 |
| General | | | | | | |
| Power supply | V/DC | 230 ± 10% | 230 ± 10% | 230 ± 10% | 230 ± 10% | 230 ± 10% |
| Power consumption | W | 6.5 | 6.5 | 6.5 | 6.5 | 6.5 |
| Shielding Efficiency VHF | dB | 65 | 65 | 65 | 65 | 65 |
| Shielding Efficiency UHF | dB | 75 | 75 | 75 | 75 | 75 |
| Connectors | | F-connector | F-connector | F-connector | F-connector | F-connector |
| Certification | | CE | CE | CE | CE | CE |
| Impedance | Ohm | 75 | 75 | 75 | 75 | 75 |
| Operation temperature range | °C | 0...+50 | 0...+50 | 0...+50 | 0...+50 | 0...+50 |
| Weight | kg | 0.475 | 0.475 | 0.475 | 0.475 | 0.475 |
| Dimensions (H x D x W) | mm | 65 x 50 x 175 | 65 x 50 x 175 | 65 x 50 x 175 | 65 x 50 x 175 | 65 x 50 x 175 |

1) DIN/EN 50083 Part 3 CTBA (Composite triple beat ratio) @ 60 dB IMR, CENELEC-raster 42 channels



Facts about IFA Distribution Amplifiers

Technical Data

| TYPE | | IFA 210 | IFA 211 | IFA 231 | IFA 232 | IFA 235 | IFA 236 |
|------------------------------|------------|---------------------|---------------------|------------------------|----------------------|-----------------------|----------------------|
| Part No. | | 339210 | 339211 | 339231 | 339232 | 339235 | 339236 |
| Forward Path | | | | | | | |
| Frequency range | MHz | 47 - 862 | 47 - 862 | 47 - 862 | 47 - 862 | 87 - 862 | 87 - 862 |
| Gain @47 or 87 MHz/@862 MHz | dB | 0...20 | 0...20 | -5...25/12...32 | 1...21/8...28 | 5...25/12...32 | 1...21/8...28 |
| Noise figure | dB | < 5.0 (typical 4.5) | < 5.0 (typical 4.5) | < 6.5 (typical 6.0) | < 6.5 (typical 6.0) | < 7.0 (typical 6.5) | < 7.0 (typical 6.5) |
| Linearity | dB | ± 1.0 | ± 1.0 | ± 1.0 | ± 1.0 | ± 1.0 | ± 1.0 |
| Slope | dB | | | 7.0 | 7.0 | 7.0 | 5 |
| Equalizer | dB | | | 0 - 18 | 0 - 18 | 0 - 18 | 0 - 18 |
| Outputs | pcs | 1 | 1 | 1 | 2 | 1 | 2 |
| Output level | | | | | | | |
| 60 dB 3 order (DIN 45004B) | dB μ V | 112.0 | 112.0 | 116.0 | 2 x 112.0 | 116.0 | 2 x 112.0 |
| 60 dB 3 order (DIN 45004A1) | dB μ V | 104.0 | 104.0 | 104.0 | 2 x 100.0 | 104.0 | 2 x 100.0 |
| 60 dB CTB ¹⁾ | dB μ V | 94.5 | 94.5 | 97.5 | 2 x 93.5 | 97.5 | 2 x 94.5 |
| 60 dB CSO ¹⁾ | dB μ V | 90.5 | 90.5 | 93.5 | 2 x 89.5 | 93.5 | 2 x 90.5 |
| Return loss (-1.5 dB/Octave) | dB | > 14 @47 MHz | > 14 @47 MHz | > 14 @47 MHz | > 14 @47 MHz | > 14 @87 MHz | > 14 @87 MHz |
| Return path | | | | | | | |
| Frequency range | MHz | 5 - 30 | 5 - 65 | 5 - 30 | 5 - 30 | 5 - 65 | 5 - 65 |
| Through loss | dB | 1.0 | 1.0 | 1.5 | 5.5 | 1.0 | 4.5 |
| General | | | | | | | |
| Power supply | V/DC | 230 ± 10% | 230 ± 10% | 230 ± 10% | 230 ± 10% | 230 ± 10% | 230 ± 10% |
| Power consumption | W | 3.0 | 3.0 | 6.5 | 6.5 | 6.5 | 6.5 |
| Shielding Efficiency VHF | dB | 65 | 65 | 65 | 65 | 65 | 65 |
| Shielding Efficiency UHF | dB | 75 | 75 | 75 | 75 | 75 | 75 |
| Connectors | | F-connector | F-connector | F-connector | F-connector | F-connector | F-connector |
| Certification | | CE | CE | CE | CE | CE | CE |
| Impedance | Ohm | 75 | 75 | 75 | 75 | 75 | 75 |
| Operation temperature range | °C | 0...+50 | 0...+50 | 0...+50 | 0...+50 | 0...+50 | 0...+50 |
| Weight | kg | 0.400 | 0.400 | 0.475 | 0.475 | 0.475 | 0.475 |
| Dimensions (H x D x W) | mm | 61 x 44 x 118 | 61 x 44 x 118 | 65 x 50 x 175 | 65 x 50 x 175 | 65 x 50 x 175 | 65 x 50 x 175 |

1) DIN/EN 50083 Part 3 CTBA (Composite triple beat ratio) @ 60 dB IMR, CENELEC-raster 42 channels



ACB/ATB Sat IF Distribution Amplifiers

Technical Data

| TYPE | | | ACB 280 | ATB 2200 |
|------------------------------|--------------|------------|----------------|----------------|
| Part No. | | | 324280 | 300571 |
| Forward Path | | | | |
| Frequency range | Terrestrial | MHz | 10 - 862 | 86 - 862 |
| | Satellite | MHz | 950 - 2150 | 950 - 2150 |
| Gain | Terrestrial | dB | - 2.0 | 20...28 |
| | Satellite | dB | 21...28 | 20...28 |
| Noise figure | Terrestrial | dB | < 8.0 | < 5.0 |
| | Satellite | dB | < 8.0 | < 10.0 |
| Linearity | | dB | ± 1.0 | ± 1.0 |
| Attenuation | Terrestrial | dB | 0 - 10 | 0 - 12 |
| | Satellite | dB | 0 - 10 | 0 - 10 |
| Equalizer | Terrestrial | dB | | -8.0 (fixed) |
| | Satellite | dB | | -8.0 (fixed) |
| Inputs / Outputs | | pcs | 2/1 | 1/1 |
| Output level | Terrestrial | dB μ V | | 116.0 |
| | Sat - IM3-35 | dB μ V | 116.0 | 116.0 |
| Isolation | SAT/TV | dB | | |
| | TV/SAT | dB | | |
| Return loss (-1.5 dB/Octave) | | dB | > 14 @47 MHz | > 14 @ 86 MHz |
| Return path | | | | |
| Frequency range | | MHz | | 4 - 65 |
| Through loss | | dB | | 1.5 |
| General | | | | |
| Power supply | V/AC | | 230 ± 10% | 230 ± 10% |
| | V/DC | | 12 | 24 |
| Power consumption | | mA | | 250 (v. 15V) |
| Connectors | | | F-female | F-female |
| Certification | | | CE | CE |
| Impedance | | ohm | 75 | 75 |
| Operation temperature range | | °C | 0...+50 | 0...+50 |
| Weight | | kg | 1.4 | 1.4 |
| Dimensions (H x D x W) | | mm | 100 x 62 x 185 | 100 x 68 x 187 |

1) DIN/EN 50083 Part 3 CTBA (Composite triple beat ratio) @ 60 dB IMR, CENELEC-raster 42 channels



Technical data - ARM multiband amplifiers

| TYPE | | ARM 404 | ARM 455 | ARM 486 |
|-----------------------------|--------------|----------------------|----------------------|---------------------|
| Part No. | | 324121 | 324122 | 324123 |
| Input 1 - Frequency range | MHz | 47 - 68 + 87.5 - 108 | 47 - 68 + 87.5 - 108 | 87.5 - 108 |
| Input 1 - Gain | dB | 32 | 34 | 36 |
| Input 1 - Noise figure | dB | 5.0 | 5.0 | 8.0 |
| Input 2 - Frequency range | MHz | 174 - 230 | 174 - 230 | 47 - 68 + 174 - 230 |
| Input 2 - Gain | dB | 32 | 34 | 36 |
| Input 2 - Noise figure | dB | 5.0 | 5.0 | 8.0 |
| Input 3 - Frequency range | MHz | 470 - 862 | 470 - 862 | 174 - 230 |
| Input 3 - Gain | dB | 40 | 47 | 36 |
| Input 3 - Noise figure | dB | 8.0 | 5.0 | 7.0 |
| Input 4 - Frequency range | MHz | 470 - 862 | 470 - 862 | 470 - 862 |
| Input 4 - Gain | dB | 40 | 40 | 47 |
| Input 4 - Noise figure | dB | 8.0 | 9.0 | 5.0 |
| Input 5 - Frequency range | MHz | | 470 - 862 | 470 - 862 |
| Input 5 - Gain | dB | | 40 | 44 |
| Input 5 - Noise figure | dB | | 9.0 | 9.0 |
| Input 6 - Frequency range | MHz | | | 470 - 862 |
| Input 6 - Gain | dB | | | 44 |
| Input 6 - Noise figure | dB | | | 9.0 |
| Output level 3.order - VHF | dB μ V | 117.0 | 117.0 | 121.0 |
| @ 60 dB IMD - UHF | dB μ V | 117.0 | 117.0 | 121.0 |
| Connectors | | F | F | F |
| Impedance | Ohm | 75 | 75 | 75 |
| Power consumption | W | 7 | 7.5 | 11.3 |
| Remote supply | V/mA | 12/60 | 12/60 | 12/60 |
| Operation voltage | V/AC | 185 - 265 | 185 - 265 | 185 - 265 |
| Operation temperature range | $^{\circ}$ C | -20 to +55 | -20 to +55 | -20 to +55 |
| Weight | kg | 1.250 | 1.250 | 1.250 |
| Dimensions (H x D x W) | mm | 122 x 70 x 210 | 122 x 70 x 210 | 122 x 70 x 210 |

ARM 404



ARM 455



ARM 486



Thinking one step ahead...

Triax philosophy is customer-orientation: In both our markets, TV-systems and enclosures, our objective is to save time and trouble for the installers, operators and distributors building their business on our products.

Simplicity and support are key words, expressed both in products and in service.

Our products offer more in performance and simplifying logic, and in our support customers have easy access to understandable, useful and competent answers.

Innovative thinking, service-oriented people and advanced technology has made Triax one of the leading European suppliers of both TV-systems and enclosures.

We offer everything that can be expected from a professional supplier within these fields. Triax is of course ISO 9001 certified and delivers products according to all acknowledged local and international quality standards.

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Simply **more**
- more simply

