

# Satellite In - Line Amplifier



## SLA 1321

Broadcast System

### ■ Description

- Design for in-line boosting SAT IF
- Powered by the receiver via coaxial cable
- Models with slope gain can equilibrate cable loss
- Low intermodulation distortion
- 500mA power pass for LNB operation requirement
- Output level test according to EN50083-3 or -5
- Screening factor: Compliant to class B
- Zinc die cast housing, nickel plated

### ■ Equalizer Advantages :

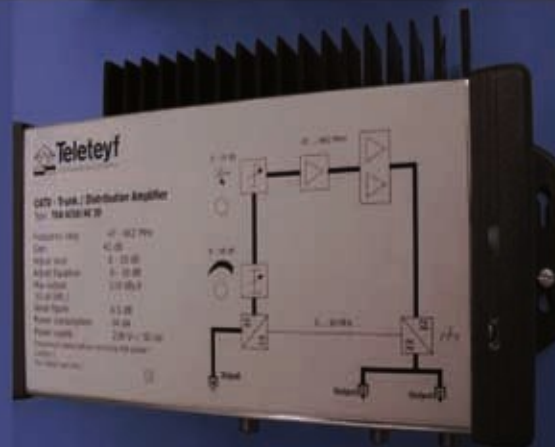
- Improve Receiver reception quality
- Improve In-Channel frequency response
- Low group delay

### Specifications :

Type	SLA 1321	Unit
Frequency range	900-2400	MHz
Gain	13 ~21	dB
Equalizer	8	dB
Noise figure	5	dB
Output Level	110@35dB IMR <sub>3</sub>	dB <sub>μ</sub> V
Return loss input	8	dB
Voltage Requirement	11 - 20	VDC
Current Requirement	40	mA
DC pass	Both direction	

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**TDA4218**
**TDA3418**
**CTA4220**


### ■ Applications

Used as distribution amplifier in large community installations or cable networks.

It can be used as a line amplifier in small cable networks. These installations commonly have long runs of cable which attenuate and unbalance the signal. The channels with higher frequencies attenuate more.

the trunk distribution amplifiers compensate this loss with the equalizer and amplify the channels adding as little as possible.

### ■ Description

Trunk Distribution amplifier for CA TV available in high output levels (push-pull/Module Technology). It has the return path, input attenuator and line equalizer. The output test point permits the checking and adjustment of the installation without having to disconnect the RF signal

Type		TDA4218	TDA3418	CTA4220
return path		5 - 30 MHz	_____	_____
Frequency range	MHz	47-862	47-862	47-862
Gain	dB	42±1	34±1	42±1
Adjustable attenuator	dB	18	18	18
Line equalizer	dB	0...14dB@47MHz	0...14dB@47MHz	0...14dB@47MH
Max output level				
EN 50083-5 (60 dB IMR3)	dB $\mu$ V	118	118	120
EN 50083-3 (60 dB IMR3)	dB $\mu$ V	112	112	114
Test output	dB	-30	-30	-30
Noise figure	dB	7.5	7	7
Return loss input	dB	>20	>20	>20
Return loss output	dB	>20	>20	>20
Power consumption	VA	18	14	18
* Power supply	V	220±%10	220±%10	220±%10
Operation indicator		LED orange	LED orange	LED orange
Dimensions	mm	250x150x60	250x150x60	210x120x84

\* Feed through 12 Vdc option

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# In- house Distribution Amplifiers



DA 4398

DA 8894

MATV System

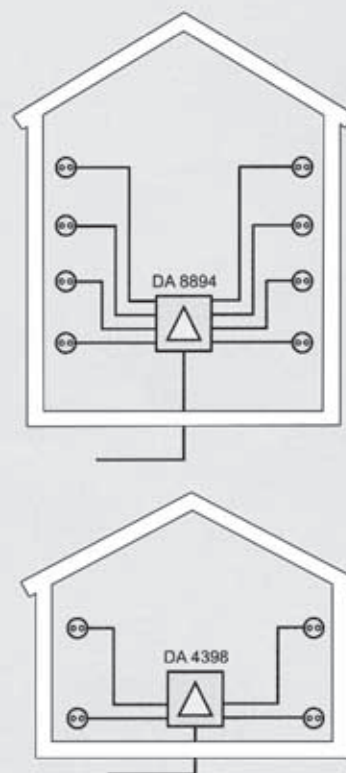
## ■ Description

Due to their large transmission range (47-862 MHz) these amplifiers are suitable in house-distribution amplifiers in MATV system.

## ■ Applications

Used as a distribution amplifier in small and medium community installations and small CATV systems.

## ■ Installation Example:



Type		DA 4398	8191
Order no.		972302	972303
Output no.		4	8
Frequency range	MHz	47-862	47-862
Gain	dB	3 ± 1	18 ± 1
Max. Output	dBμV	98	101
Noise Figuer	dB	<5	<7
Mains Operation	V	220 ± 10% 50Hz	
Operating temperature	C°	0 ... +50	
Dimensions	mm	124 x 112 x 62	182 x 120 x 65

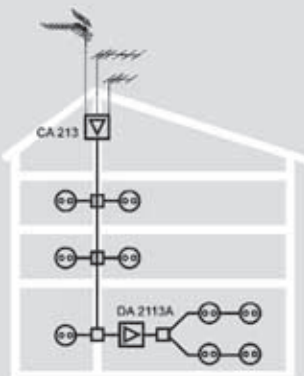
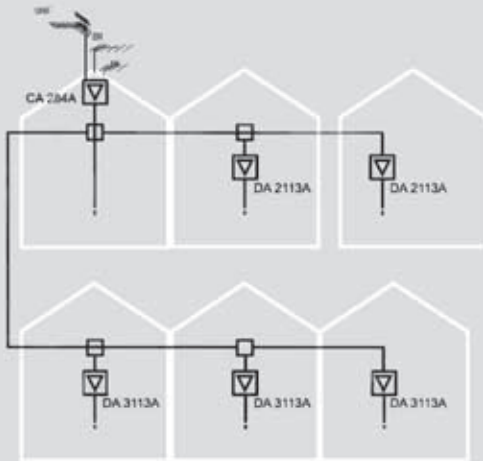
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DA 2113 A  
DA 3113 A  
DA 3015 A  
DA 3015 AE



#### ■ Installation Example:



#### ■ Applications

Used as a distribution amplifier in medium and large community installations or cable networks. It can be used as a line amplifier in small cable networks. These installations commonly have long runs of cable with attenuate and unbalance the signal, attenuating those channels with higher frequency more. The distribution amplifiers compensate this loss with the equalizer and amplify the channels adding as little noise as possible.

#### ■ Description

Due to their large transmission range (47-862MHz) these amplifiers are suitable both in house-distribution and as line amplifiers in MATV - systems. The amplifiers are housed in a metal enclosure and are fitted with a built-in power supply and an attenuator to optimize the levels.

Type		DA 2113 A	DA 3113 A	DA 3015 A	DA 3015 AE
Order no.		972201	972202	972203	972204
Frequency range	MHz	47 - 862	47 - 862	47 - 862	47 - 862
Gain	dB	18 - 21	28 - 31	30	30
Adjustable attenuator	dB	0 - 10	0 - 18	0 - 18	0 - 18
Fixed equalization	dB	3	3	---	---
Adjustable equalization	dB	---	---	---	0 - 14
Max. output level(60dBIMR3)	(dB $\mu$ V)	113	113	115	115
Noise figure	dB	7	7	7	7
Power consumption	W	3	3.5	3.5	3.5
Power supply	V		220 $\pm$ 10%	50 Hz	
Operation indicator			LED Orange		
Operation temperature	C°		0 ... + 50		
Dimensions	mm		182 x 120 x 65		

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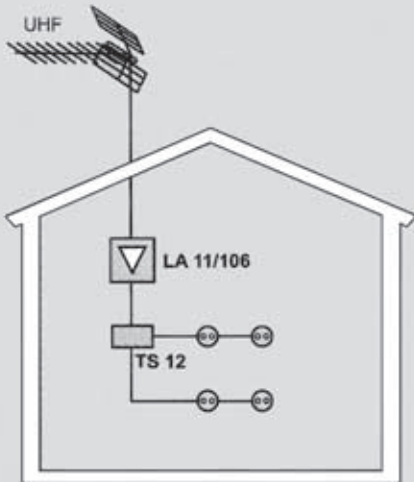
## Line Extension Amplifier

**MATV System**

**LA 11/106**



### ■ Installation Example:



### ■ Applications

For extension of all CATV system or terrestrial signals with in an apartment without altering the in-hous cable system.

### ■ Description

The amplifier has low gain or small community installations.

Type		LA 11 / 106	AM 141
Order no.		972301	972304
Frequency range	MHz	47-862	UHF/VHF
Gain	dB	11+1	0~25/0~14
Max. Output	dB $\mu$ V	106	2 x 103
Noise Figuer	dB	<5	<5
Mains Operation	V		220 $\pm$ 10% 50Hz
Operating temperature	C°		0 ... + 50
Dimensions	mm	124 x 112 x 62	120 x 72 x 43

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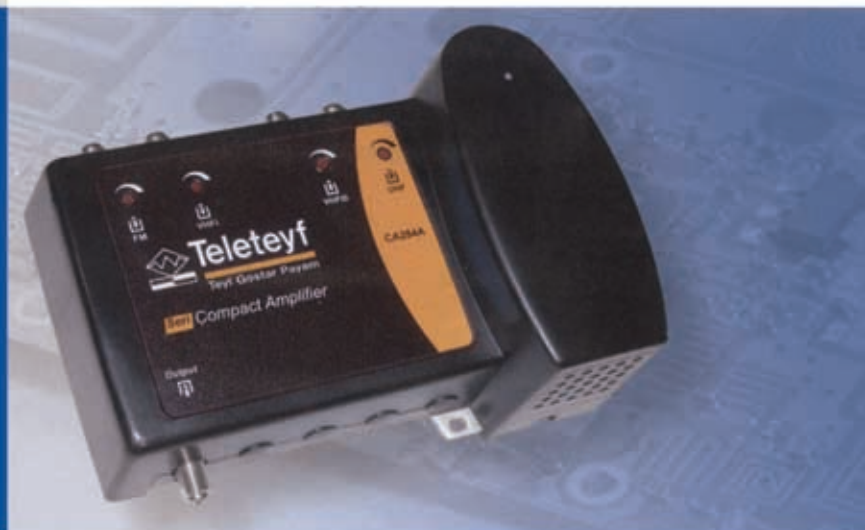
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# Compact Amplifiers

## Highly selective band passes



CA 214  
CA 284A  
CA 424A

MATV System

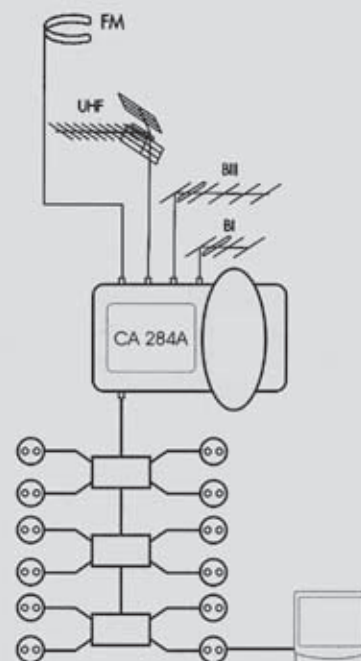
### Description

Multi - band amplifiers are with highly selective band-passes in the input circuits. Particular attention was paid to high modulation strength. Built on a compact chassis, they are capable of supplying a signal to a large number of outlets.

### Applications

Designed for analogue and digital terrestrial TV installations in medium sized MATV networks on individual installations. They are used as the head-end amplifier of the installation.

### Installation Example:



Type	CA 214	CA284A	424A
Order no	972101	972102	972103
Number of inputs	3	4	4
Frequency range	Band B I B III UHF	FM B I B III UHF	BI BII UHF UHF
	MHz 47 174 470       68 230 862	87 47 174 470         108 68 230 862	87 47 470 470         108 68 862 862
Gain	dB 18 18 21	28 28 28 28	34 34 42 42
Input variable attenuator	dB ----	----	0 - 18
Noise figure	dB <7	<7	<7
Max. output level (60dB IMR3)	dB $\mu$ V 106	113	118
Power consumption	W 1.5	3.8	8.5
Power supply	V	220 $\pm$ 10% 50 Hz	
Operation indicator		LED Orange	
Operation temperature	C°	0 ... + 50	
Dimensions	mm	182 x 120 x 65	

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