

Amplifiers UHF,DAB and Band 2 Inputs

- For indoor mounting
- Metal housing with plastic side brackets
- High input selection
- F-Connectors

Ideal for Seperate
Inputs FM,DAB,UHF





22dB Gain 108dBuV output*

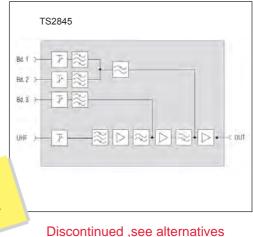
Shipping £3.90 Prices Ex VAT

Туре		TSC2248
Inputs		3
Frequency range	MHz	87 - 108 174 - 230 470 - 862
Gain	dB	22
Ouput level		
60 dB IMA3	dBµ∨	108
60 dB IMA2	dΒμV	105
Noise figure	dB	65
Operating voltage	V AC	230
Power consumption	VA	45
Connectors		F female
Dimensions	mm	192 x 125 x 50
Weight	kg	045









Discontinued, see alternatives page 6 and 8

Туре		TS2	845			TS	4560		
	VHF 1	FM	VHF 2	UHF	VHF 1	FM	VHF 2	UHF	UHF
Frequency MHz	47-68	87.5-108	174-230	470-862	47-68	87.5-108	174-230	470-862	470-862
Gain dB	21	21	28	28	35	35	35	45	45
Attenuator dB	-20	-20	-20	-20	-20	-20	-20	-20	-20
Output Level 60dB IMA			113dBuV				120dBuV		
Noise dB	≤ 6	≤ 6	≤ 6		≤ 6	≤ 6	≤ 6	≤ 7	≤ 10
Dimensions W xHxD		24	12x103x60r	nm			242x103x60mm	1	
Voltage			230V 6W				230V 9W		
Price	£89.19			_	£122.94				

Line amplifiers with return path options for distributing cable tv.





Туре	Frequency	Gain	Att dB	Reverse Channel	Reverse Channel Gain	Max Output 60dB 1MA 3 DIN 45004B	Noise	Power AC	Price
TSC2054/65	85-862MHz	0-20dB	0-20	5-65MHz	16dB	115dBUV	≤5dB	230V 4.5W	£54.78
TSC3054/65	85-862MHz	10-30dB	0-20	5-65MHz	25dB	115dBUV	≤5dB	230V 4.5W	£54.78

TXS



Multiband amplifiers for head ends

Туре	VS 80A							
	VHF 1	VHF 1 FM VHF 2 UHF UHF						
Frequency MHz	47-68	87-108	174-230	470-862	470-862			
Gain dB	35	35	35	42	42			
Attenuator dB	-18	-18	-18	-18	-18			
Output Level EN 50083-5			119dBuV					
Noise dB	≤ 7	≤ 7	≤ 7	≤ 7	≤ 7			
Dimensions W xHxD		16	35x105x45m	nm				
Voltage	230V 4W							
Test output	-20dB							
Price	£108.28							

CCC

4288





High Output ,Head End or Line Amplifiers, with active and passive return path options, very flat frequency response.

40-20 dB of gain ,adjustable. High output capability 127dBuv** Large channel capacity**

Ideal for distribution from a cable TV feed

20dB Variable gain control, 20dB variable slope control

Broadband ADSL Cable modems can be used on the network via optinal return path.

**DIN 45004B



Return path now function included

Technical data				
Туре	TSC4065	TSC4065LP		
Frequency range	85	.1006 MHz		
Gain	switcha	able 30/40 dB		
Attenuator adjustable via switches 2,4,6,12dB	0	16 dB		
Equalizer	016 dB / Ir	nterstage 0 or 6 dB		
Noise figure	≤	6,5 dB		
Test points		-20 dB		
Output level max IMA3 60 dB	1:	27 dBµV		
Return path freq.	5.	65 MHz		
Gain return path		30 dB		
Return path Attenuator	0	16 dB		
Return path Equalizer	0	12 dB		
Operating voltage	180255 V~	2670 V~		
Power consumption	13,5 W	13,5 W		
Dimensions	242 x 105 x 60 mm			

TSC4065 RP £190.76

TSC4065 £156 .20 .No Return path

TSC4065LP £259.67



Specifications

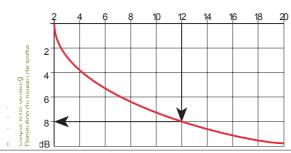
High Output for digital muxes

Digital multiplexes need four times the power compared to analogue TV, but will work at least 20 dB lower, Consequently this amplifier will provide 9dB extra for a typical system distributing 8 DVB-T multiplexes all at the same level. Allowance has to be made as with old analogue TV channels for different levels that may received from the antenna. Design the system for 40dBuV at the outlet, this provides enough for very old TV sets with high tuner noise levels More modern TV sets will work on at least 10db less than this.

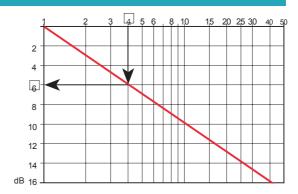
Some local stations use16QAM or QPSK modulation so again a much lower RF level at the point will work.

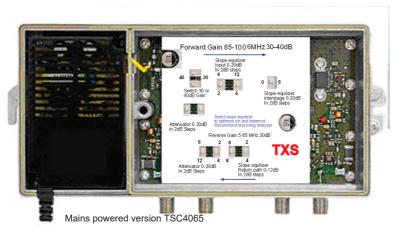
Derating for number of channels DIN45004B

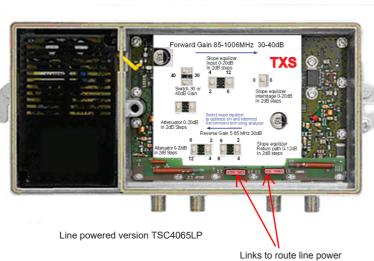
Number of distributed channels, allow additional margin for digital muxes



Derating for cascading of amplifiers







0 dB. 0 10 dB. 0 dB. 6 dB. 10 dB 0 10 dB 16 dB 0 16 dB

Attenuation and slope control for forward and return path via switch control.

This now makes it simpler to set when calculating coax cable losses

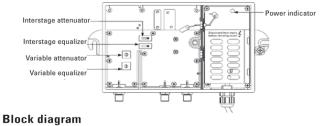
via input or output or through

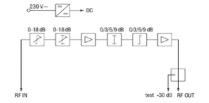


TSC4065 A High Output CATV amp



TSC4065 A £161.00 Ex Vat





_	47 000 144
Frequency range	47 862 MHz
Flatness	±0.5 dB
Gain	41 dB
Gairi	41 UB
Gain adjustment	0 18 dB
Slope adjustment, typical	0 18 dB
Interstage attenuator	0/3/6/9 dB
Inverse equalizer	0/3/6/9 dB
Output level IMA3 60 dB	126dBuV
Input and output return loss	=18 dB @40 MHz - 1.5 dB/octave
Noise figure	<5 dB uV
Test point	-30 dB
Supply voltage limit values	198250 VAC, 50/60 Hz
Power consumption	13 W
Operating temperature range	-20+50 °C

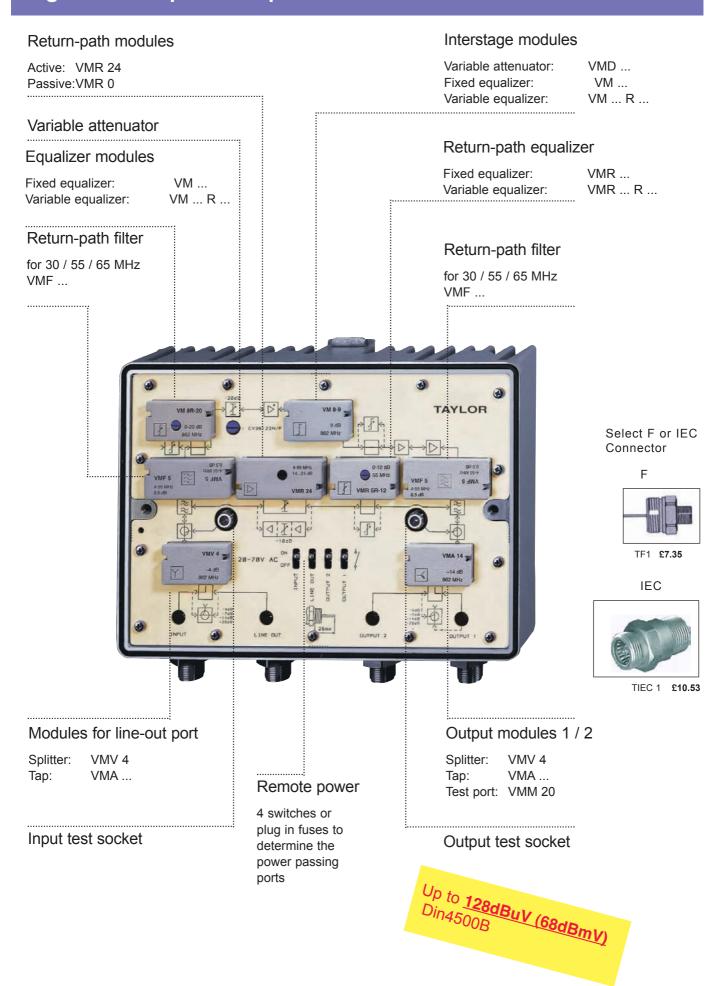
Dimensions

180 x 132 x 76 mm (main body)

213 x 132 x 76 mm (with fixing ears)

Weight (packed) 1.4 kg

High Power Repeater Amplifiers For Networks with Return Path





Currently CATV networks are being extended to "Full Service Networks" (FSN). apart from distributing TV and radio programmes, these networks carry interactive services like fast Internet access, cable telephony, and other bidirectional applications. Therefore the return-path is becoming more and more important to transmit subscriber messages back to the headend of the network. Passive return paths have the advantage of being bi-directional and reliable

Return-path of your choice

Depending on the requirements of the cable operator, the upper return-path frequency may be chosen between 30, 55 and 65 MHz. Optional passive or active modules may be inserted. A separate slot is provided for the return-path equalizer.

Customize to suit

With only a few different modules a wide range of configurations can be covered by using the optional modules, without need for a large stock. Each amplifier is supplied with one variable attenuator module and through links apart from the return path filter.



Housings meet highest demands

The new aluminum die-cast housings meet protection class IP66 requirements. This means that the amplifier is dust-proof and water-protected which yields constant electrical features and long product life.

To change the configuration of the amplifier it can be opened by loosening 2 screws and unclasp the lid by 180 degrees where it will lock in position until all

The depth from wall to lid was limited to 90 mm to make the amplifier fit into common installation boxes.

Easy installation

The amplifier is held by a mounting bracket. Upon fixing the bracket firmly to its support by means of two screws, the amplifier may be slid on the bracket and arrested with only one screw.



Specifications subject to change

	Max output **									
Туре	Frequency	Gain dB	Reverse Channel	Variable Attenuator dB	Noise	60dB 1MA 3 DIN 4500B	60dB 1MA 2 DIN 4500A1	Return Loss	Power AC	Price
THV 40126	47-73-86 -862MHz*	32/40	4-30-55-65MHz*	20 Forward Path	≤7.0dB	126-128dBuV	118-119dBuV	20dB to 40MHz	180-255V 14W	£385.00
THV40126LP	47-73-86 -862MHz*	32/40	4-30-55-65MHz*	20 Forward Path	≤7.0dB	126-128dBuV	118-119dBuV	20dB to 40MHz	24-70V 14W	£385.00

Frequency Response Flatness ± .75dB Power Through 2.5A Hum Modulation ≥ 65dB

*Depending on which return path filter (VMF)is used

Transmission range Forward Reverse 4 - 30 MHz 47 - 862 MHz Return 4 - 55 MHz 73 - 862 MHz path Forward path 4 - 65 MHZ 86 - 862 MHz 4 MHz 862 MHz

Because of the frequency response flatness and line power through current handling ,

use these amplifiers for long trunk lines
The gain of the amplifiers can be selected 20-40dB

	Max output **									
Туре	Frequency	Gain	Reverse	Variable	Noise	60dB 1MA 3	60dB 1MA 2	Return	Power	Price
		dB	Channel	Attenuator dB		DIN 4500B	DIN 4500A1	Loss	AC	
TCV40126	47-73-86 -862MHz*	41	4-30-55-65MHz*	20 Forward Path	≤6.5dB	126-128dBuV	118-119dBuV	20dB to 40MHz	180-255V 14W	£408.80
TCV40126LP	47-73-86 -862MHz*	28/36	4-30-55-65MHz*	20 Forward Path	≤6.5dB	126-128dBuV	118-119dBuV	20dB to 40MHz	24-70V 14W	£408.80

Frequency Response Flatness ± .5dB Power Through 2.5A Hum Modulation ≥ 65dB

Connectors PG11 see connector page for PG11 Adaptors

^{**}Output levels quoted are at 862MHz & 600MHz

^{*}Depending on which return path filter (VMF)is used

^{**}Output levels quoted are at 862MHz & 600MHz



Plug in modules

Туре	Frequency Range	Insertion Loss	Price
Return Path Filter			
VMF3	4-30MHz	.5dB	£14.38
VMF6	4-65MHz	.5dB	£14.38



Туре	Frequency Range	Gain	Price
Return Path Filter	with Level Adjustmen	t, Passive and Active	
VMR0	4-30MHz	-10/0dB	£10.78
VMR24	4-55MHz	14-24dB	£17.96



Туре	Frequency Range	Equalization	Insertion Loss	Price
Variable Equalizers	Return Path			
VMR 3R12	4-30MHz	0-10dB	1dB	£11.21
VMR 6R12	4-65MHz	0-10dB	1dB	£11.21



Туре	Frequency Range	Equalization	Insertion Loss	Price					
Variable Equalizers Forward Path									
VM 4 R-10	47-450MHz	0-10dB	1dB	£10.78					
VM 4 R-20	47-450MHz	0-20dB	1dB	£10.78					
VM 6 R-10	47-606MHz	0-10dB	1dB	£10.78					
VM 6 R-20	47-606MHz	0-20dB	1dB	£10.78					
VM 8R-10	47-862MHz	0-10dB	1dB	£10.78					
VM 8R-20	47-862MHz	0-20dB	1dB	£10.78					
VMD 20	4-862MHz	0-20dB	1dB	£8.44					



Туре	Port 1	Port 2	Price
Output Splitter Modules 4-862	MHz		
VMM20	0.5dB	20dB	£8.87
VMA7	2dB	7dB	£10.46
VMA14	1dB	14dB	£10.46
VMV4	4dB	4dB	£10.46







