

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**



If connecting directly to a UHF antenna for Freeview, it is advisable to use a ch filter leveller to avoid unwanted out of area programs and interference from other transmissions in the UHF band

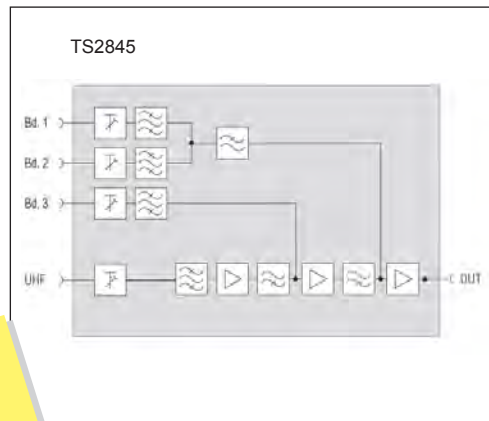
£46.00

**22dB Gain
108dBuV output***

Shipping 3 days £3.90
Prices Ex VAT



Type		TSC2248
Inputs		3
Frequency range	MHz	87 - 108 174 - 230 470 - 862
Gain	dB	22
Output level		
60 dB IMA3	dBuV	108
60 dB IMA2	dBuV	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



Type	TS2845			
	VHF 1	FM	VHF 2	UHF
Frequency MHz	47-68	87.5-108	174-230	470-862
Gain dB	21	21	28	28
Attenuator dB	-20	-20	-20	-20
Output Level 60dB IMA	113dBuV			
Noise dB	≤ 6	≤ 6	≤ 6	
Dimensions W xHxD	242x103x60mm			
Voltage	230V 6W			
Price	£89.19			

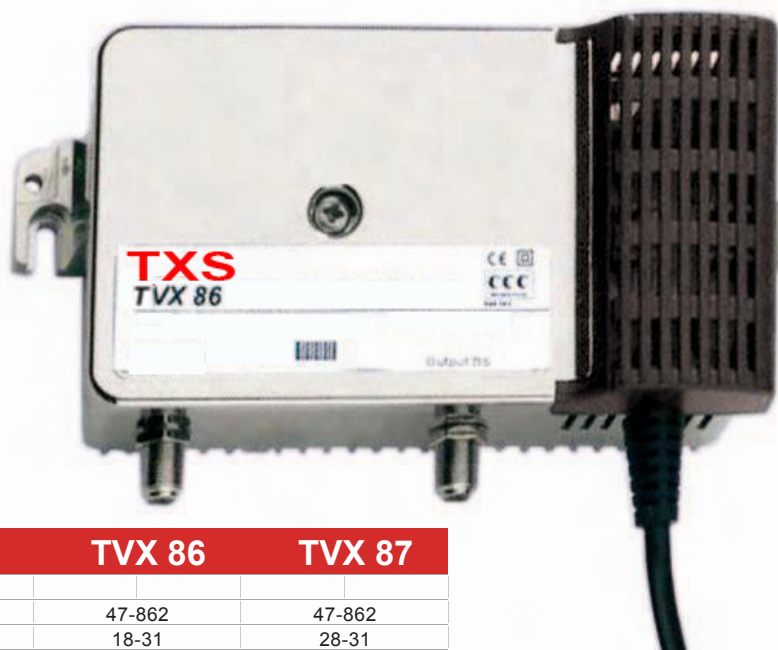
Line amplifiers with return path options for distributing cable tv.



Type	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	£46.77
TSC3054/65	85-862MHz	10-30dB	0-20	5-65MHz	25dB	115dBuV	≤5dB	230V 4.5w	£47.73



Type	VS 80A				
Frequency MHz	VHF 1 47-68	FM 87-108	VHF 2 174-230	UHF 470-862	UHF 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	165x105x45mm				
Voltage	230V 4W				
Test output	-20dB				
Price	£108.28				



Type	TVX 81	TVX 82	TVX 86	TVX 87
Frequency MHz	87-862	87-862	47-862	47-862
Gain dB	18-21	28-31	18-31	28-31
Number of outputs	1	1	1	1
Attenuator dB	-18	-18	-18	-18
Output Level EN 50083-5-3	114dBuV	114dBuV	114dBuV	114dBuV
Output Level 42 ch CENELEC	96dBuV	96dBuV	96dBuV	96dBuV
Output Level 42 ch CENELEC 6dB slope	98.5dBuV	98.5dBuV	98.5dBuV	98.5dBuV
Return path				
Gain dB Active passive via jumper	20dB /-2dB	20dB /-2dB	-2dB	-2dB
Adjustable attenuator dB	-18	-18	-	-
Output Level EN 50083-5-3	112dBuV	112dBuV	-	-
Passive return path MHz	4-65	4-65	4-30	4-30
Active return path MHz	4-65	4-65	-	-
Operating Temperature	-20 deg C + 55 deg C *			
Dimensions W xHxD	163x90x47mm			
Voltage	230V 3.5W			
Price	Discontinued	Discontinued	£36.35	£45.70

*

MTBF failures worsen running at high temperature. All electronic equipment benefit from operating in moderate temperatures

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 125dBuV**

Large channel capacity**

Ideal for distribution from a cable TV feed

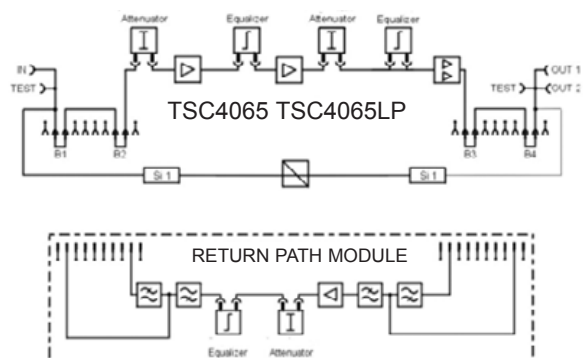
20dB Variable gain control, 20dB variable slope control

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

**DIN 45004B



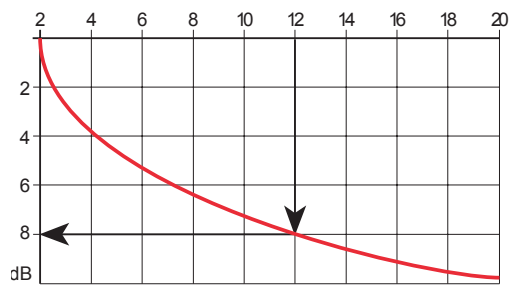
Gain and slope controls fitted as standard in forward path



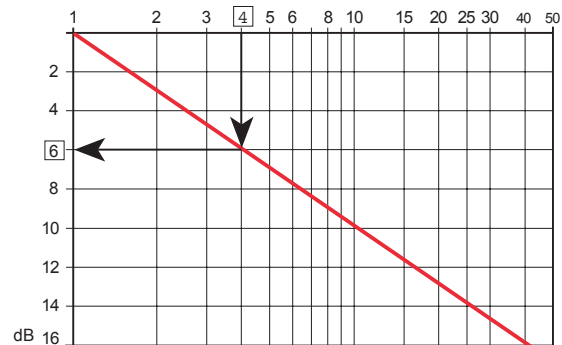
Type	Frequency MHz	Reverse Channel MHz	Gain dB	Max Output dBuV						Noise	Power AC	Line power through current	Dimensions	Price
				60dB 1MA 3			60dB 1MA 2							
				DIN 45004B			DIN 45004A1							
				450	606	862MHz	450	606	862MHz					
TSC4065	47-862/86-862	4-30/4-65	40	126	125	125	115	111	111	≤6.0dB	110-255 11W		242x103x60mm	£148.90
TSC4065LP	47-862/86-862	4-30/4-65	40	126	125	125	116	111	109	≤6.5dB	24-70V 8W	2.5A	242x103x60mm	£148.90

Derating for number of channels DIN45004B

Number of distributed channels, allow additional margin for digital muxes



Derating for cascading of amplifiers



Return path accessories

Gain and slope controls fitted
as standard in forward path

	Return Path Modules			
	Passive		Active	
Type	TRPM 0/30	TRPM 0/65	TRPM 20/30	TRPM 20/65
Frequency Range	4-30MHz	4-65MHz	4-30MHz	4-65MHz
Attenuator	one slot select from listed attenuators			
Equalizer	one slot select from listed equalizers			
Gain	-1dB	-1dB	20dB	20dB
Prices	£33.41	£33.41	£33.41	£33.41



Type	Attenuators Attenuation dB 0-870MHz	Prices
TSVP1	5	£1.09
TSVP2	5	£1.09
TSVP3	5	£1.09
TSVP4	5	£1.09
TSVP5	5	£1.09
TSVP6	6	£1.09
TSVP7	7	£1.09
TSVP8	8	£1.09
TSVP9	9	£1.09
TSVP10	10	£1.09
TSVP11	11	£1.09
TSVP12	12	£1.09
TSVP13	13	£1.09
TSVP14	14	£1.09
TSVP15	15	£1.09
TSVP16	16	£1.09
TSVP17	17	£1.09
TSVP18	18	£1.09
TSVP19	19	£1.09
TSVP20	20	£1.09
TSVP1-20	one of each(20)	£21.42

Variable attenuators now fitted



For slope control
fit a attenuator in the slot
for the equalizer and the lowest
frequency will be attenuated by
the value of the attenuator, and
the highest frequency will have a
nominal loss

Fixed attenuators option



LP routing links supplied
with line power amps



TSVP 0-10	0-10	£1.58
TSVP 0-20	0-20	£1.58

High Power Repeater Amplifiers For Networks with Return Path

Return-path modules

Active: VMR 24
Passive: VMR 0

Variable attenuator

Equalizer modules

Fixed equalizer: VM ...
Variable equalizer: VM ... R ...

Return-path filter

for 30 / 55 / 65 MHz
VMF ...

Interstage modules

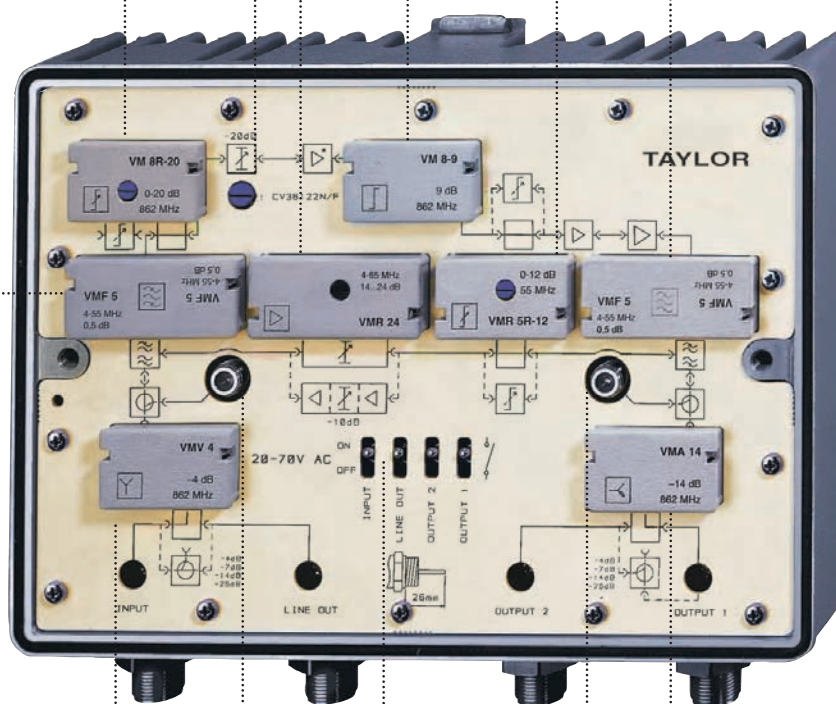
Variable attenuator: VMD ...
Fixed equalizer: VM ...
Variable equalizer: VM ... R ...

Return-path equalizer

Fixed equalizer: VMR ...
Variable equalizer: VMR ... R ...

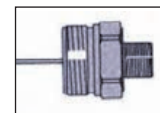
Return-path filter

for 30 / 55 / 65 MHz
VMF ...



Select F or IEC Connector

F



TF1 £7.35

IEC



TIEC 1 £10.53

Modules for line-out port

Splitter: VMV 4
Tap: VMA ...

Input test socket

Remote power

4 switches or
plug in fuses to
determine the
power passing
ports

Output modules 1 / 2

Splitter: VMV 4
Tap: VMA ...
Test port: VMM 20

Output test socket

Up to **128dBuV (68dBmV)**
Din4500B

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 bi-directional 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

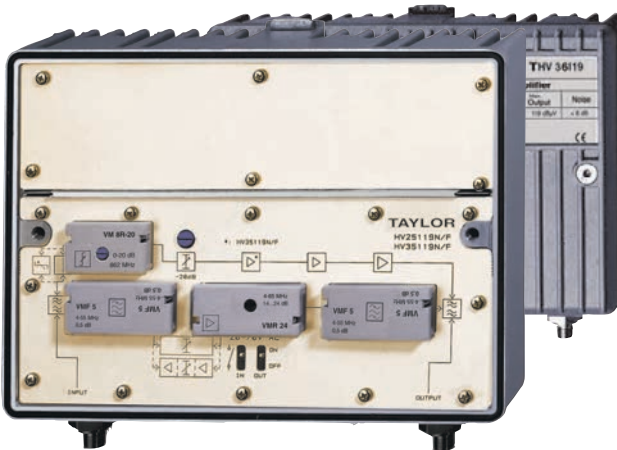
The new aluminum die-cast housings meet protection class IP66 requirements. This means that the amplifier is dust-proof and water-protected which yields constant electrical features and long product life.

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 changes are done.

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.



Massive Power

High Power Repeater Amplifiers
Up to **128dBuV (68dBmV)**
DIN4500B
4-862MHz

Type	Frequency	Gain dB	Reverse Channel	Variable Attenuator dB	Noise	Max output **		Return Loss	Power AC	Price
						60dB 1MA 3 DIN 4500B	60dB 1MA 2 DIN 4500A1			
THV40126	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	£289.55
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	£289.55

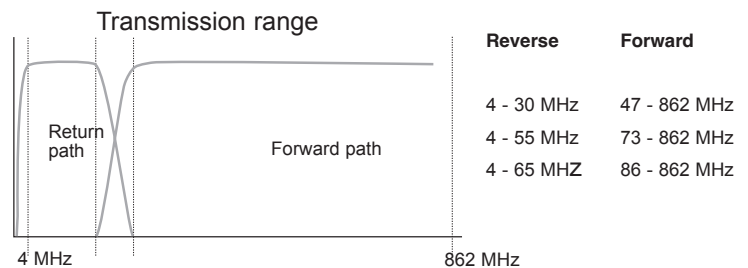
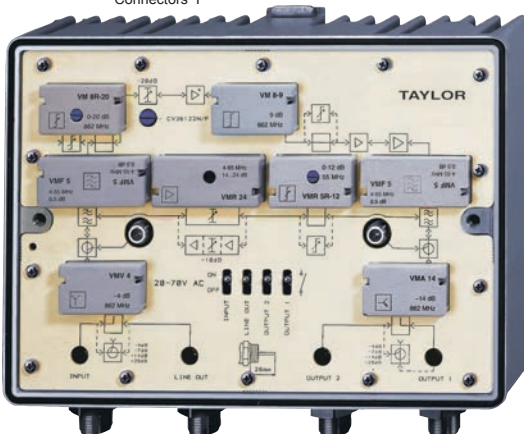
Frequency Response Flatness ± .75dB Power Through 2.5A Hum Modulation ≥ 65dB

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

**Output levels quoted are at 862MHz & 600MHz

Connectors F

Specifications subject to change



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.

Type	Frequency	Gain dB	Reverse Channel	Variable Attenuator dB	Noise	Max output **		Return Loss	Power AC	Price	5+
						60dB 1MA 3 DIN 4500B	60dB 1MA 2 DIN 4500A1				
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	£343.87	£320.95
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	£343.87	£320.95

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

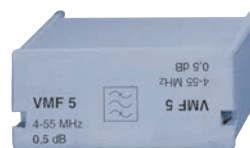
*Depending on which return path filter (VMF) is used

**Output levels quoted are at 862MHz & 600MHz

Connectors PG11 see connector page for PG11 Adaptors

Plug in modules

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



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



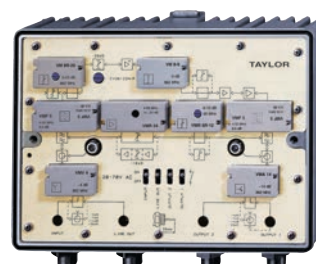
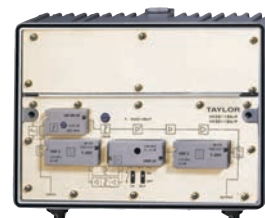
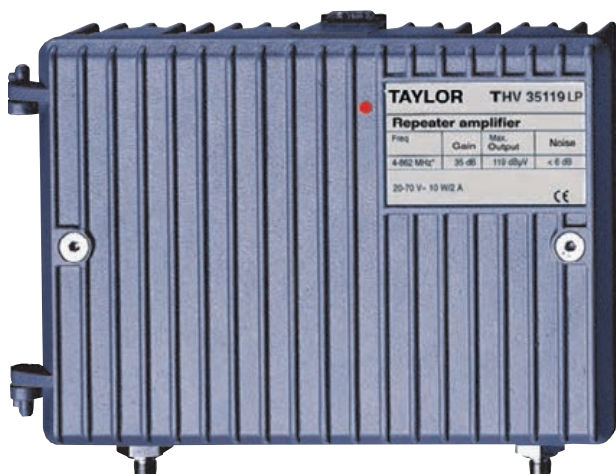
Type	Frequency Range	Equalization	Insertion Loss	Price
Variable Equalizers Return Path				
VMR 3R12	4-30MHz	0-10dB	1dB	£11.21
VMR 6R12	4-65MHz	0-10dB	1dB	£11.21



Type	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



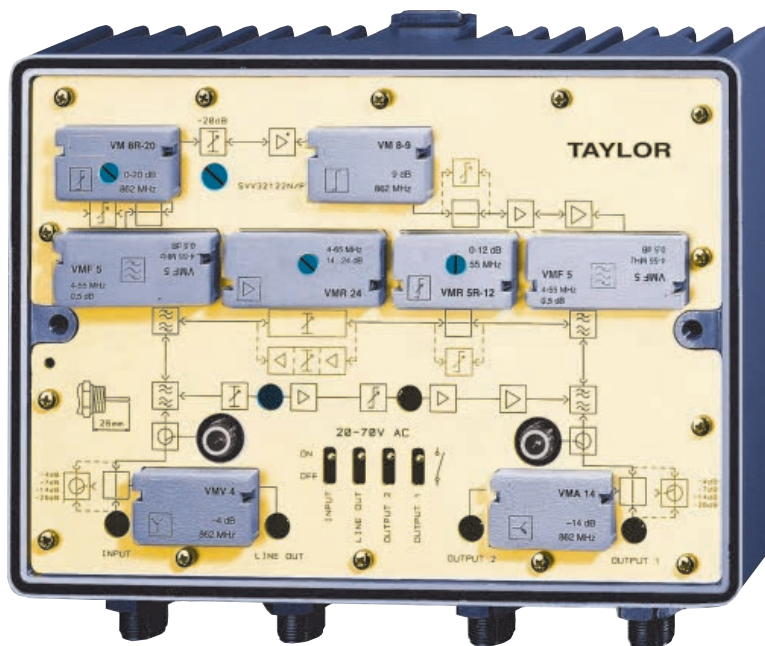
Type	Port 1	Port 2	Price
Output Splitter Modules 4-862MHz			
VMM20	0.5dB	20dB	£8.87
VMA7	2dB	7dB	£10.46
VMA14	1dB	14dB	£10.46
VMV4	4dB	4dB	£10.46



Super Broadband Amplifiers

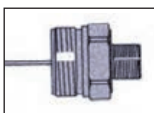
4-2400MHz INCLUDING RETURN PATH

- For amplification of CATV and SAT-IF signals
- For line and distribution networks up to 2400 MHz
- Configuration on site for forward path as well as return path with plug-in modules
- Return path with frequency edge of 30, 55 or 65 MHz, available as active or passive versions
- Minimal noise figure through equalization and attenuation after pre-amplifier stage
- Test ports for input and output signals
- LED operating indication
- Aluminum die-cast housing with excellent heat dissipation (IP 66)
- PG11 for different connector standards



Select F or IEC Connector

F



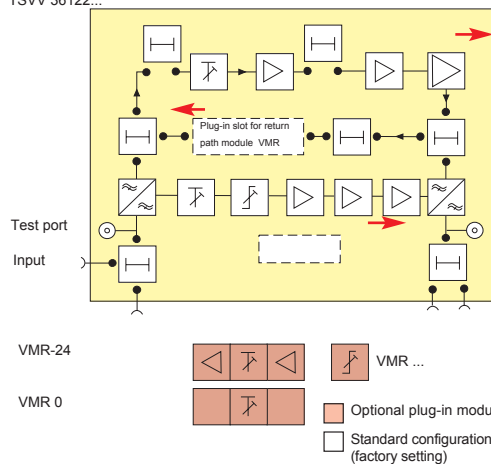
TF1 £7.35

IEC



TIEC 1 £10.53

TSVV 36122...



- VM .. Fixed equalizer
- VM ..R .. Variable equalizer
- VMD Variable attenuator
- VM... Fixed Equalizer
- VMA... Tap
- VMV 4 Splitter
- VMF ... Return path filter
- VMM 20 Test port

Type	Frequency	Gain Return Path	Gain 47-860MHz	Gain 950-2400MHz	Reverse Channel	Noise Return path with active module	Noise 47-860MHz	Noise 950-2400MHz	Max output 60dB 1MR3 (DIN 45004B)	Max output 60dB 1MR 2 (DIN 4500A1)	Max output 35dB 1MR 3 /2150MHz	Power AC	Price	5+
TSVV 34122	47-73-862MHz * 950-2400MHz	Choose Module	36dB	37dB	4-30MHz	≤6.5dB	≤7dB	≤9dB	123dBuV	115dBuV	120dBuV	180-255V 16W	£464.06	£433.12
TSVV 34122 LP 4A Through	47-73-862MHz * 950-2400MHz	Choose Module	36dB	40dB	4-65MHz	≤6.5dB	≤7dB	≤9dB	123dBuV	115dBuV	120dBuV	24-70V 16W	£470.50	£439.04

Frequency response 47-862 ± 0.5dB 950-2400MHz ± 1.5dB

* Depending which return path module is used

Amplifier comes with 4x PG11 threads ,please choose F or IEC connector if PG11 connectors are not to be used