



A P P L I C A T I O N

G U I D E



Television Aerial Accessories
FROM



FRINGE ELECTRONICS LTD

THE FRINGE COMMITMENT

A commitment to product quality and reliability has made Fringe a leading brand name in the market for over 20 years.

We maintain our reputation by ensuring all design and assembly processes are carried out in-house at our Clipstone factory.

Products are 100% tested and masthead amplifiers receive an additional air test to ensure full performance before final packing.

Every product is also made completely traceable by use of quality control labels, which carry individual assembly codes.

With our policy of keeping pace with today's and tomorrow's technology, all Fringe products are compatible with digital TV systems.



FRINGE ELECTRONICS LTD

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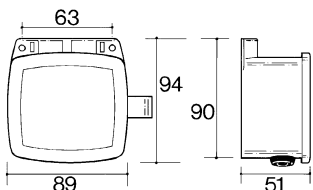
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website: www.fringeelectronics.co.uk

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All masthead amplifiers and duplexers are housed in a weather proof enclosure with a hinged snap-on cover. Membrane grommets are used to ensure a sealed cable entry, the coaxial cables are clamped by a brass, one piece, spring loaded cable clamp. A releasable plastic strap fits any diameter mast. Holes are provided for surface mounting.

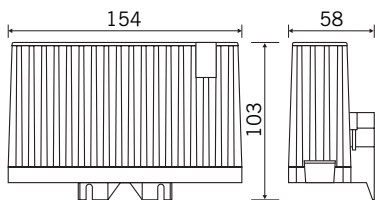
OUTDOOR ENCLOSURES



Colour: Green



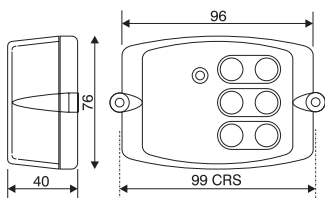
OUTDOOR 4 ENCLOSURE



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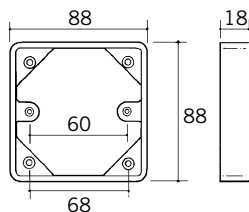


INDOOR ENCLOSURES



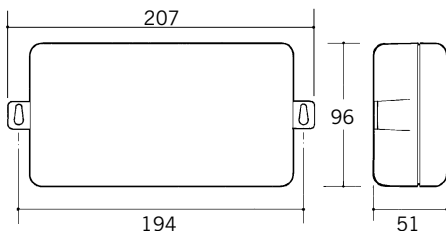
Colour: White

T6 ENCLOSURES



Colour: White

7 WAY & 8 WAY ENCLOSURES



Colour: Black

All dimensions in millimetres.



Three models are available in the V.H.F range, all feature low noise figures. The V.H.F. 1220-F.M. is suitable for the improvement of V.H.F./F.M. radio reception in Europe and the U.K.

The other V.H.F. models are manufactured for export markets, but are ideal for long distance T.V. reception in the U.K.



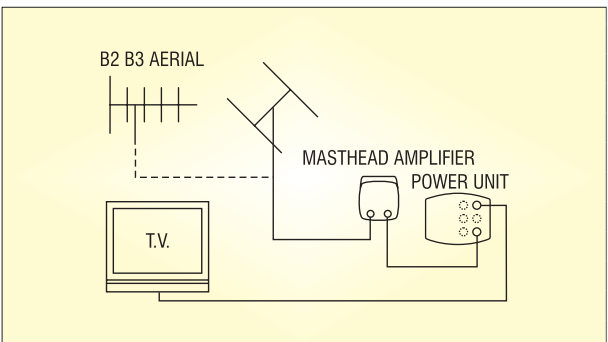
S P E C I F I C A T I O N S

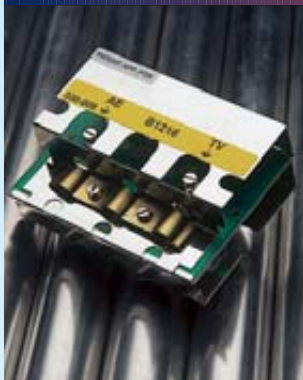
Model	Group	Frequency	Gain	Flatness	Noise Figure	Order Code
VHF1220-FM	Band 2	88-108MHz	20db.	+ -1db.	1.8db.	VHF1220-FM
VHF1220-3	Band 3	175-230MHz	20db.	+ -1db.	1.8db.	VHF1220-3

Output on all models: Din 45004 – 100dbuv

Power requirements: 12v. d.c. @ 10m.a. (use P1235)

C.E. compliance: Approved





Five models are available in the U.H.F. range, all featuring low noise figures. Will enhance any U.H.F. T.V. signal at an economical cost.

NEW SPECIFICATIONS

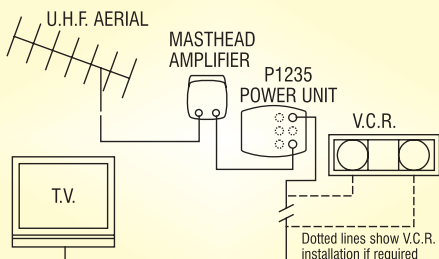
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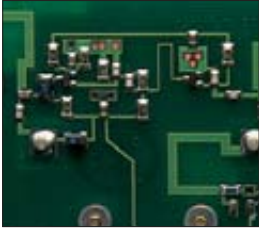
Model	Group	Channel No.	Gain	Flatness	Noise Figure	Order Code
A1218	A	21 - 37	18db.	+ -1db.	1.9db.	A1218
B1216	B	35 - 53	16db.	+ -1db.	1.9db.	B1216
CD1213	C.D.	48 - 68	14db.	+ -1db.	1.9db.	CD1213
WB1214	W.B.	21 - 68	15db.	+ -1db.	1.9db.	WB1214
E1213	E	35 - 68	14db.	+ -1db.	1.9db.	E1213

Output on all models: Din 45004 – 100dbuv.

Power requirements: 12v. d.c. @ 10m.a. (use P1235)

C.E. compliance: Approved





Five models are available in this range, all feature high gain and low noise figures. Ample gain is available to overcome losses incurred in long cable runs, and passive splitting.

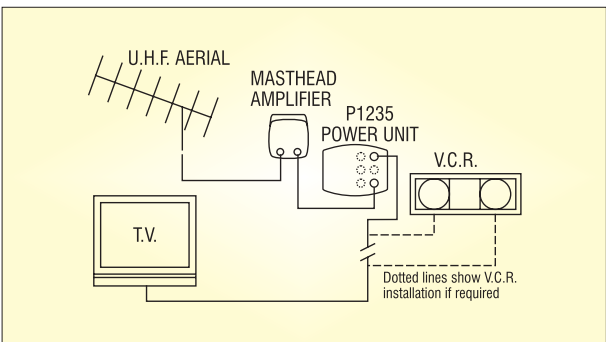
S P E C I F I C A T I O N S

Model	Group	Channel No.	Gain	Flatness	Noise Figure	Order Code
A1228	A	21 - 37	28db.	+ -1.5db.	2.8db.	A1228
B1226	B	35 - 53	26db.	+ -1.5db.	2.8db.	B1226
CD1223	C.D.	48 - 68	23db.	+ -1.5db.	2.8db.	CD1223
WB1222	W.B.	21 - 68	22db.	+ -1.5db.	2.8db.	WB1222
E1223	E	35 - 68	23db.	+ -1.5db.	2.8db.	E1223

Output on all models: Din 45004 - 98dbuv.

Power requirements: 12v. d.c. @ 14m.a. (use P1235)

C.E. compliance: Approved





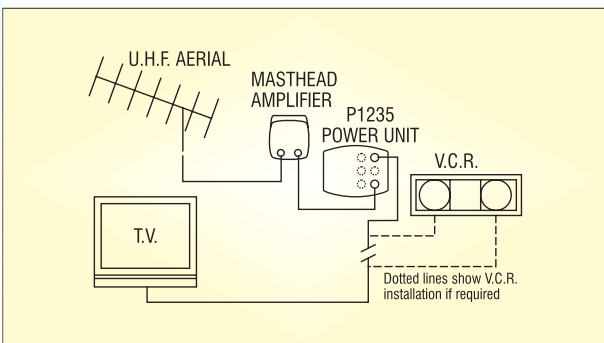
Five models are available in this range, all feature very low noise figures, high gain and high output capability. From 100u.v. of aerial signal an excellent picture may be obtained. Ideal head unit for Cascade systems.

Model	Group	Channel No.	Gain	Flatness	Noise Figure	Order Code
A1230	A	21 - 37	30db.	+ -1.5db.	1.9db.	A1230
B1228	B	35 - 53	28db.	+ -1.5db.	1.9db.	B1228
CD1225	C.D.	48 - 68	25db.	+ -1.5db.	1.9db.	CD1225
WB1225	W.B.	21 - 68	25db.	+ -1.5db.	1.9db.	WB1225
E1225	E	35 - 68	25db.	+ -1.5db.	1.9db.	E1225

Output on all models: Din 45004 – 200dbuv.

Power requirements: 12v. d.c. @ 32m.a. (use P1235)

C.E. compliance: Approved





WB22/V MASTHEAD AMPLIFIER

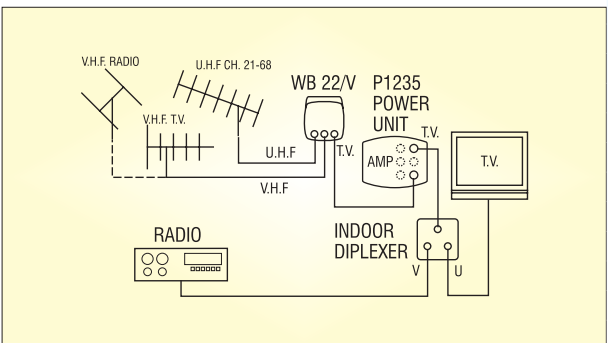
MASTHEAD AMPLIFIERS

The WB22/V has been designed with separate U.H.F. and V.H.F. inputs, only U.H.F. is amplified. The internal V.H.F. diplexer is suitable for V.H.F. television and radio. The combined signals may be separated with a U.H.F./V.H.F. diplexer or a diplexed wall plate.



S P E C I F I C A T I O N S

Amplification U.H.F. only	–	CH.21 - 68 470 - 860MHz
Gain	–	22db. + –1.5db.
Noise figure	–	2.9db.
Output	–	100dbuv
V.H.F. input	–	40 – 230MHz
Through loss	–	Less than 1db.
Power requirements	–	12v d.c. @ 14ma (Use P1235)
C.E. compliance	–	Approved
Order code	–	WB22/V

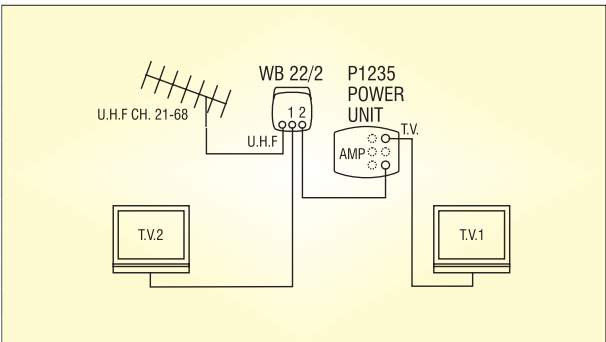




The WB22/2 is a wide band U.H.F. amplifier with in-built low loss splitter. This enables two television sets to operate from one masthead amplifier. The power unit must be switched on to operate either T.V.

In strong signal reception areas each leg may be split again using Fringe Inductive Splitters; this enables 2, 3 or 4 set reception.

U.H.F. only	–	CH.21 - 68 470 - 860MHz
Gain per leg	–	18db. + –1.5db.
Noise figure	–	2.9db.
Output per leg	–	96dbuv.
Output leg isolation	–	not less than 15db.
Power requirements	–	12v d.c. @ 14ma (Use P1235)
C.E. compliance	–	Approved
Order code	–	WB22/2





The standard P1235 and P1290 power units supply 12 volts d.c. via the coaxial download to the masthead amplifier. Model P1235 output is 12v @ 35ma, and model P1290 is 12v @ 90ma.



S P E C I F I C A T I O N S

P1235

Output voltage	–	12v d.c. @ 35ma short circuit proof
Supply voltage	–	230v a.c. 50hz + –10% 2 Watts
Fitted with non-rewireable 13amp plug	–	with 3 amp fuse
Through loss V.H.F./U.H.F.	–	40 to 860 MHz less than 1db.
LED indicator	–	Indicates mains switched on
Size	–	110mm L x 76mm W x 40mm D
C.E. compliance	–	Approved
Mounting	–	Two hole fixing
Order code	–	P1235

Suitable for all Fringe Masthead Amplifiers.

P1290

Output voltage	–	12v d.c. @ 90ma short circuit proof
Supply voltage	–	230v a.c. 50hz + –10% 2 Watts
Fitted with non-rewireable 13amp plug	–	with 3 amp fuse
Through loss V.H.F./U.H.F.	–	40 to 860 MHz less than 1db.
LED indicator	–	Indicates mains switched on
Size	–	110mm L x 76mm W x 40mm D
C.E. compliance	–	Approved
Mounting	–	Two hole fixing
Order code	–	P1290

Suitable for all Fringe Masthead Amplifiers and Cascades.



The Fringe Two Set Power Unit allows two television sets to operate from one masthead amplifier. The internal inductive splitter is suitable for all F.M./V.H.F. radio and television signals in the 40 – 860MHz frequency range.

P1235/2

Output voltage	–	12v d.c. @ 35ma short circuit proof
Supply voltage	–	230v a.c. 50hz + –10% 2 Watts
Fitted with non-rewireable 13amp plug	–	with 3 amp fuse
Through loss V.H.F.	–	3.5db. @ 40 – 230MHz.
Through loss U.H.F.	–	3.5db. @ 470MHz to 5db @ 860MHz.
Isolation	–	Average 40 – 860MHz 17db.
Size	–	110mm L x 76mm W x 40mm D
C.E. compliance	–	Approved
Minimum input signal level	–	1mv.
Mounting	–	Two hole fixing
Order code	–	P1235/2

Suitable for all Fringe Masthead Amplifiers.

P1290/2

Output voltage	–	12v d.c. @ 90ma short circuit proof
Supply voltage	–	230v a.c. 50hz + –10% 2 Watts
Fitted with non-rewireable 13amp plug	–	with 3 amp fuse
Through loss V.H.F.	–	3.5db. @ 40 – 230MHz.
Through loss U.H.F.	–	3.5db. @ 470MHz to 5db @ 860MHz.
Isolation	–	Average 40 – 860MHz 17db
Size	–	110mm L x 76mm W x 40mm D
C.E. compliance	–	Approved
Minimum input signal level	–	1mv.
Mounting	–	Two hole fixing
Order code	–	P1290/2

Suitable for all Fringe Masthead Amplifiers and Cascades.

A P P L I C A T I O N S

- Outlets may be used for F.M. radio and television signals.
- V.C.R. capability on one television set.
- Ideal in situations when only one download available.
- Reduces installation costs, time and materials.



The Cascade U.H.F. repeater amplifier is a through powered unit, designed to operate in conjunction with any Fringe masthead amplifier. This enables long coaxial cable runs to be used where the T.V. is remote from the aerial.

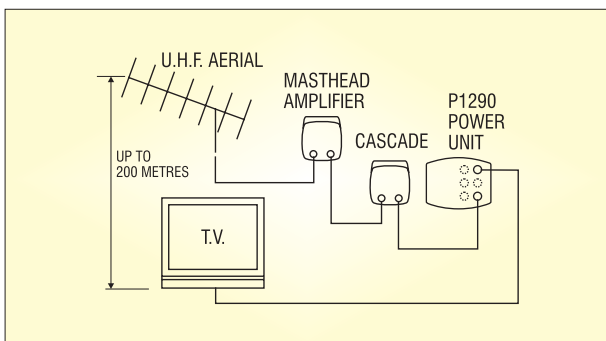
Depending on the model of masthead, channel group, and aerial signal available a distance of 200 metres may be obtained, using standard grade coaxial cable, one masthead, and one Cascade amplifier.

A distance of 800 metres may be obtained, by using distribution grade coaxial cable, and three Cascade amplifiers.



S P E C I F I C A T I O N S

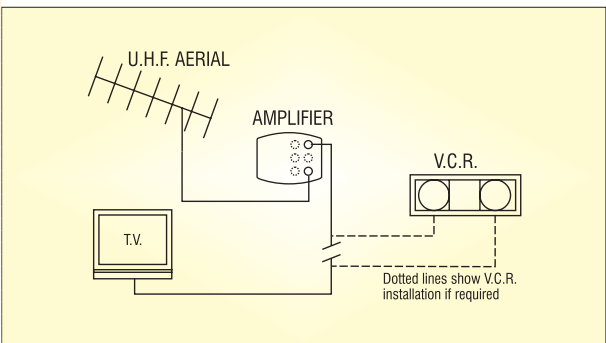
U.H.F. only	- CH.21 - 68 470 - 860MHz
Gain	- 23db.
Flatness	- + -1db.
Noise figure	- 3.5db.
Output	- 102dbuv.
Power requirements	- 12v d.c. @ 23ma + Masthead (Use P1290)
C.E. compliance	- Approved
Order code	- Cascade





The U.H.F. Set Back Amplifier is an indoor mains operated unit, and will improve noisy U.H.F. T.V. pictures.
Not suitable for use with M.A.T.V. systems.

U.H.F. only	-	CH.21 - 68, 470 - 860MHz.
Gain	-	14db.
Flatness	-	+ -1.5db.
Noise figure	-	2.5db.
Output	-	98dbuv
Supply voltage	-	230v a.c. 50hz + -10% 2 Watts
Fitted with non-rewireable 13 amp plug	-	with 3 amp fuse
LED indicator	-	Indicates mains switched on
Size	-	110mm L x 76mm W x 40mm D
C.E. compliance	-	Approved
Mounting	-	Two hole fixing
Order code	-	Set Back

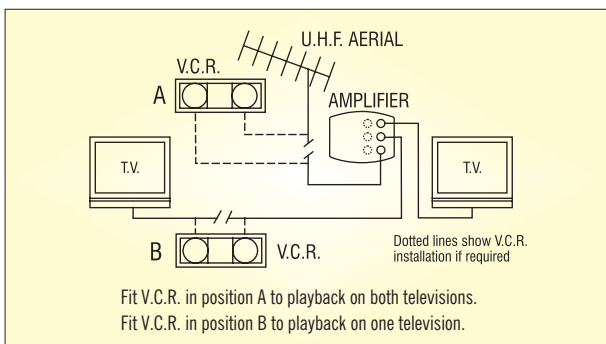


This unit is designed to operate two U.H.F. television sets from one aerial with no degradation of the original signal.



S P E C I F I C A T I O N S

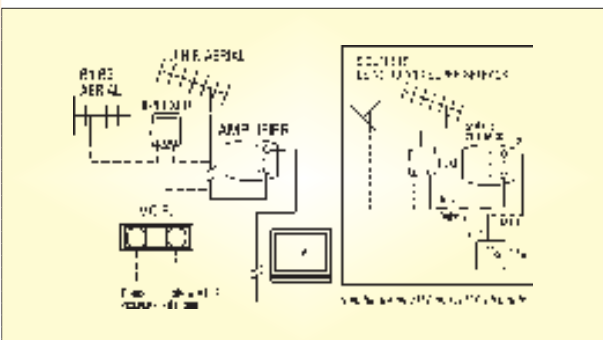
U.H.F. only	-	CH.21 - 68, 470 - 860MHz.
Gain	-	9db. per socket.
Flatness	-	+ -1db.
Noise figure	-	3.3db.
Output per socket	-	94dbuv
Supply voltage	-	230v a.c. 50hz + -10% 2 Watts
Fitted with non-rewireable 13 amp plug	-	with 3 amp fuse
LED indicator	-	Indicates mains switched on
Size	-	110mm L x 76mm W x 40mm D
C.E. compliance	-	Approved
Mounting	-	Two hole fixing
Order code	-	2 Set





This unit is an indoor mains operated unit, and will improve noisy V.H.F. and U.H.F. pictures. Primarily manufactured for export markets where V.H.F./U.H.F. T.V. is available. Ideal for use in the U.K. as a power splitting amplifier, when used in conjunction with a Fringe T6/14T splitter unit 6 outlets may be obtained. Not suitable for M.A.T.V. systems.

V.H.F. – U.H.F.	–	40 - 860MHz. wideband
Gain	–	22db.
Flatness	–	+ –1db.
Noise figure	–	3.9db.
Output	–	98dbuv
Supply voltage	–	230v a.c. 50hz + –10% 2 Watts
Fitted with non-rewireable 13 amp plug	–	with 3 amp fuse
LED indicator	–	Indicates mains switched on
Size	–	110mm L x 76mm W x 40mm D
C.E. compliance	–	Approved
Mounting	–	Two hole fixing
Order code	–	Super Set Back





SUPER TWO SET AMPLIFIER

SET BACK RANGE

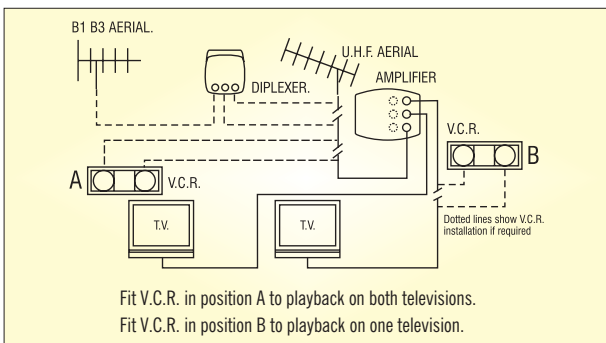


This unit is designed to operate two U.H.F. – V.H.F. television sets from one aerial. The 19db. gain per socket provides sufficient signal gain to improve weak pictures. Primarily manufactured for export markets where V.H.F. – U.H.F. T.V. is available.



S P E C I F I C A T I O N S

V.H.F. – U.H.F.	–	47 - 860MHz. wideband.
Gain	–	19db. per socket.
Flatness	–	+ –1db.
Noise figure	–	3.9db.
Output per socket	–	95dbuv
Supply voltage	–	230v a.c. 50hz + –10% 2 Watts
Fitted with non-rewireable 13 amp plug	–	with 3 amp fuse
LED indicator	–	Indicates mains switched on
Size	–	110mm L x 76mm W x 40mm D
C.E. compliance	–	Approved
Mounting	–	Two hole fixing
Order code	–	Super Two Set

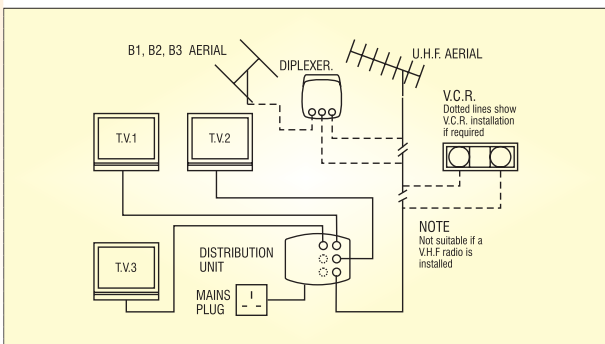


BUBBLE PACKED



This unit is designed to operate three U.H.F. or V.H.F. television sets from one aerial, with no degradation of the original signal.

V.H.F. – U.H.F.	–	47 - 860MHz.
Gain per socket	–	8db.
Flatness	–	+ –1db.
Noise figure	–	3.9db.
Output per socket	–	85dbuv
Supply voltage	–	230v a.c. 50hz + –10% 2 Watts
Fitted with non-rewireable 13 amp plug	–	with 3 amp fuse
LED indicator	–	Indicates mains switched on
Size	–	110mm L x 76mm W x 40mm D
C.E. compliance	–	Approved
Mounting	–	Two hole fixing
Order code	–	3 Set





FOUR SET DISTRIBUTION AMPLIFIER

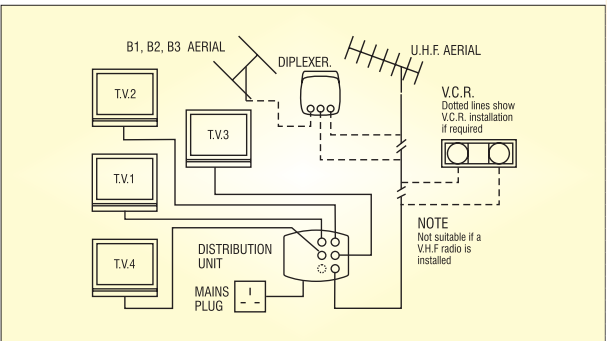
SET BACK RANGE

This unit is designed to operate four U.H.F. or V.H.F. television sets from one aerial, with no degradation of the original signal.



S P E C I F I C A T I O N S

Bandwidth	-	47 - 860MHz.
Gain per socket	-	7db.
Flatness	-	+ -1db.
Noise figure	-	3.9db.
Output per socket	-	84 dbuv.
Supply voltage	-	230v ac 50Hz + - 10% 2 watts
Fitted with non-rewireable 13 amp plug	-	with 3 amp fuse
LED indicator	-	Indicates mains switched on
Size	-	110mm L x 76mm W x 40mm D
C.E. compliance	-	Approved
Mounting	-	Two hole fixing
Order code	-	4 Set



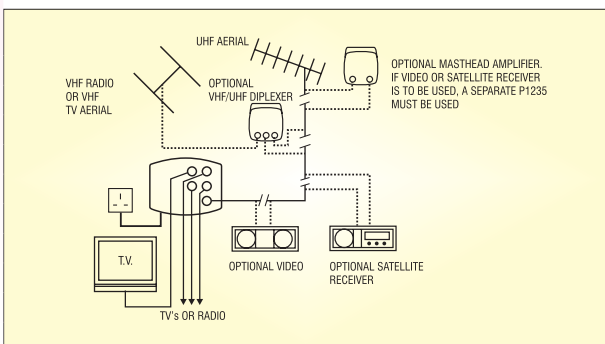
BUBBLE PACKED



The Mini 4 is a compact, indoor, mains operated amplifier, designed for domestic and commercial use. The unit enables one aerial to supply four televisions and F.M. radios simultaneously. Video tape recorder playback signals may also be distributed by the Mini 4 via the aerial input socket. The single input socket is suitable for V.H.F. radio or V.H.F. T.V. and wide band U.H.F. television. Provisions are available to line power any Fringe model Masthead Amplifier, where reception is poor.

V.H.F. – U.H.F.	–	47 - 860MHz.
Gain per socket	–	7db.
Flatness	–	+ –1db.
Noise figure	–	3.9db.
Output per socket	–	84dbuv
Isolation between sockets	–	Not less than 24db.
Supply voltage	–	230v a.c. 50hz + –10% 3 Watts
Fitted with non-rewireable 13 amp plug	–	with 3 amp fuse
LED indicator	–	Indicates mains switched on
Size	–	110mm L x 76mm W x 40mm D
C.E. compliance	–	Approved
Mounting	–	Two hole fixing tabs
Masthead powering	–	Internal switch to supply 12v @ 35ma.
Ideal input required	–	1 m.v. and should not exceed 6 m.v.
Order code	–	Mini 4

Suitable for all Fringe Masthead Amplifiers





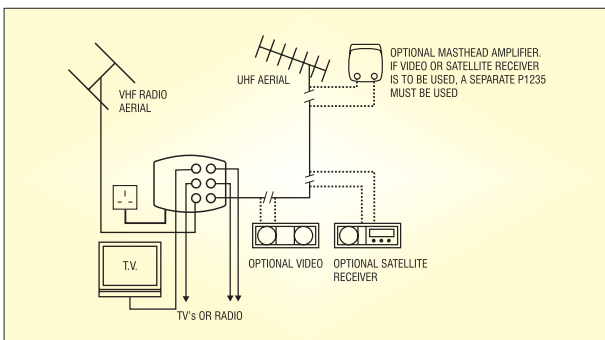
The Mini 4-2UK is a compact, mains operated amplifier, designed for domestic and commercial use. The four outputs enable one aerial to supply four televisions and F.M. radios simultaneously. A separate input socket is available for V.H.F. radio.



S P E C I F I C A T I O N S

V.H.F. – U.H.F.	–	V.H.F 88 - 108MHz
	–	U.H.F. 470 - 860MHz.
Gain per socket	–	6.5db.
Flatness	–	+ –1db.
Noise figure	–	V.H.F. 4.4db / U.H.F. 4.9db
Output per socket	–	84dbuv
Isolation between sockets	–	Not less than 24db.
Supply voltage	–	230v a.c. 50Hz + – 10% 3 watts
Fitted with non-rewireable 13 amp plug	–	with 3 amp fuse
LED indicator	–	Indicates mains switched on
Size	–	110mm L x 76mm W x 40mm D
C.E. compliance	–	Approved
Mounting	–	Two hole fixing
Masthead powering	–	Internal switch to supply 12v @ 35ma.
Ideal input required	–	1 m.v. and should not exceed 6 m.v.
Order code	–	Mini 4-2UK

Suitable for all Fringe Masthead Amplifiers

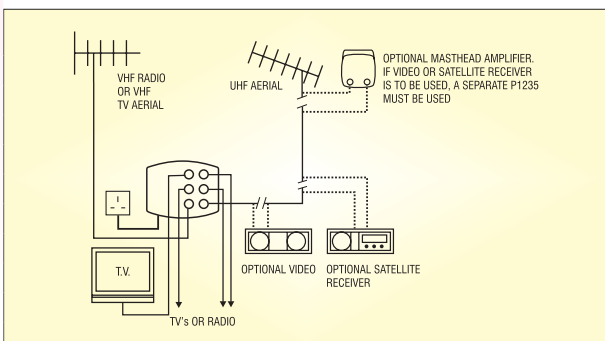




Designed for the export market, the Mini 4-2 Export, is a compact, mains operated amplifier, for domestic and commercial use. The four outputs enable one aerial to supply four televisions. A separate input socket is incorporated for V.H.F.

V.H.F. – U.H.F.	–	V.H.F 47 - 230MHz.
	–	U.H.F. 470 - 860MHz
Gain per socket	–	6.5db.
Flatness	–	+ –1db.
Noise figure	–	V.H.F. 4.4db / U.H.F. 4.9db
Output per socket	–	84dbuv
Isolation between sockets	–	Not less than 24db.
Supply voltage	–	230v a.c. 50hz + –10% 3 Watts
Fitted with non-rewireable 13 amp plug	–	with 3 amp fuse
LED indicator	–	Indicates mains switched on
Size	–	110mm L x 76mm W x 40mm D
C.E. compliance	–	Approved
Mounting	–	Fixing tab or self adhesive pads
Masthead powering	–	Internal switch to supply 12v @ 35ma.
Ideal input required	–	1 m.v. and should not exceed 6 m.v.
Order code	–	Mini 4-2 Export

Suitable for all Fringe Masthead Amplifiers

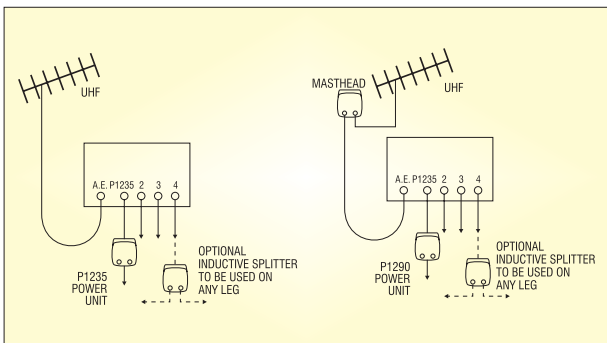




The Fringe Outdoor 4 is a four outlet, remote powered, U.H.F. only distribution amplifier. If the unit is used in a poor reception area, provisions are available to line power a masthead amplifier.

S P E C I F I C A T I O N S

Frequency range	- U.H.F. 470 - 860MHz
Channels	- 21 - 68
Gain per leg	- 11db.
Noise figure	- 3db.
Output capability	- 84dbuv. 16mv.
Flatness	- + -1.5db.
Isolation between legs	- 25db.
Power requirements	- 12v d.c. @ 15ma (Use P1235)
Masthead powering	- Switch at rear of PCB. Shipped in the Off position
If masthead amp. required	- Use P1235 or P1290 Power Unit
Size	- 154mm W x 103mm H x 58mm D
C.E. compliance	- Approved
Ideal input required	- 1mv min and should not exceed 5mv
Order code	- Outdoor 4



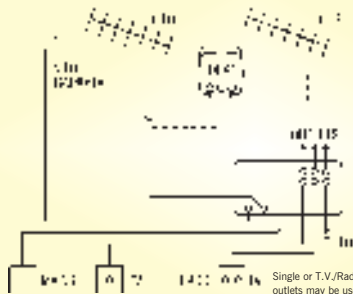


The 6 Way T.V./F.M.-Radio Distribution Amplifier is designed for domestic/commercial use.

It enables one aerial to supply up to six televisions/F.M. radios simultaneously. Video tape recorder signals may also be distributed by the 6 Way, via the U.H.F. input socket. The amplifier has two inputs V.H.F. T.V./Radio and U.H.F. T.V. If the unit is used in a poor reception area, provisions are available to line power a U.H.F. masthead amplifier.

S P E C I F I C A T I O N S

Two separate inputs	–	U.H.F.	V.H.F.
Frequency range MHz.	–	470-860	47-230
Channels	–	21-68	1-13
Gain per socket	–	7db.	7db.
Flatness	–	+ –1.5db.	+ –1.5db.
Noise figure	–	3.8db.	3.4db.
Maximum output (DIN 45005)	–	17mv – 85dbuv.	
Side rejection (Isolation)	–	Worst case 33db. Typical 38db.	
Ideal input required	–	1mv. min and should not exceed 8mv - 79dbuv.	
U.H.F. Masthead power	–	External switch to supply 12v d.c. @ 35ma.	
		Suitable for any Fringe U.H.F. masthead amplifier	
		Shipped in the Off position	
Supply voltage	–	230v a.c. 50Hz + –10% 5 watts	
Fitted with non-rewireable 13 amp plug	–	with 3 amp fuse	
Two LED indicators	–	Indicates mains On and line power On	
Fixing	–	Two tabs fixing centres 193mm	
Size	–	207mm L x 96mm W x 51mm D	
Weight	–	Shipping weight 700 grammes	
C.E. compliance	–	Approved	
Order code	–	6 Way	



We recommend the use of double isolated outlet sockets for maximum safety.

* Alternative U.H.F. station shown in dotted lines.

Single or T.V./Radio twin diplexed outlets may be used, as required.



7 WAY DISTRIBUTION AMPLIFIER

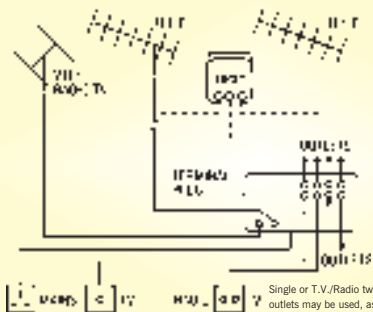
DISTRIBUTION RANGE



The 7 Way T.V./F.M.-Radio Distribution Amplifier is designed for domestic/commercial use, and enables one aerial to supply up to seven televisions/F.M. radios simultaneously. With additional Fringe T6 splitter units a maximum of 19 points may be fitted. A full output socket on the amplifier provides this facility. Full connection details are enclosed with each unit. Video tape recorder playback signals may also be distributed by this unit, via the U.H.F. input socket. The amplifier has two inputs V.H.F. T.V./Radio and U.H.F. T.V. If the unit is used in a poor reception area provisions are available to line power a U.H.F. masthead amplifier.

S P E C I F I C A T I O N S

Two separate inputs	–	U.H.F.	V.H.F.
Frequency range MHz.	–	470-860	47-230
Channels	–	21-68	1-13
Gain per socket	–	6.5db.	6.5db.
Full output socket	–	23db.	23db.
Flatness	–	+ –1.5db.	+ –1.0db.
Noise figure	–	3.8db.	3.4db.
Maximum output (DIN 45005)	Spurs	–	17mv –85dbuv.
	Full output socket	–	102dbuv.
Side rejection (Isolation)	–	Worst case 30db. Typical 36db.	
Ideal input required	–	1mv. min and should not exceed 8mv – 79dbuv.	
U.H.F. Masthead power	–	External switch to supply 12v d.c. @ 35ma. Suitable for any Fringe U.H.F. masthead amplifier Shipped in the Off position	
Supply voltage	–	230v a.c. 50Hz + –10% 5 watts	
Fitted with non-rewireable 13 amp plug	–	with 3 amp fuse	
Two LED indicators	–	Indicates mains On and line power On	
Fixing	–	Two tabs fixing centres 193mm	
Size	–	207mm L x 96mm W x 51mm D	
Weight	–	Shipping weight 700 grammes	
C.E. compliance	–	Approved	
Order code	–	7 Way	



We recommend the use of double isolated outlet sockets for maximum safety.

* Alternative U.H.F. station shown in dotted lines.

Single or T.V./Radio twin duplexed outlets may be used, as required.

8 WAY DISTRIBUTION AMPLIFIER



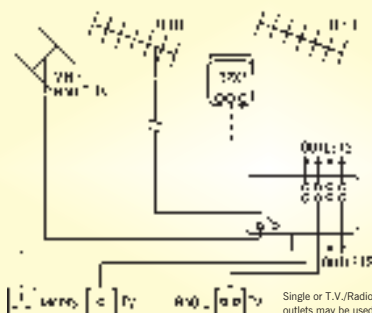
The 8 Way T.V./F.M.-Radio Distribution Amplifier is designed for domestic/commercial use. It enables one aerial to supply up to eight televisions/F.M.

radios simultaneously. Video tape recorder playback signals may also be distributed by the 8 Way, via the U.H.F. input socket. The amplifier has two inputs V.H.F. T.V./Radio and U.H.F. T.V. If the unit is used in a poor reception area provisions are available to line power a U.H.F. masthead amplifier



S P E C I F I C A T I O N S

Two separate inputs	-	U.H.F.	V.H.F.
Frequency range MHz.	-	470-860	47-230
Channels	-	21-68	1-13
Gain per socket	-	6.5db.	6.5db.
Flatness	-	+ -1.5db.	+ -1.0db.
Noise figure	-	3.8db.	3.4db.
Maximum output (DIN 45005)	-	17mv -85dbuv.	
Side rejection (Isolation)	-	Worst case 33db. Typical 38db.	
Ideal input required	-	1mv. min and should not exceed 8mv - 79dbuv.	
U.H.F. Masthead power	-	External switch to supply 12v d.c. @ 35ma. Suitable for any Fringe U.H.F. masthead amplifier Shipped in the Off position	
Supply voltage	-	230v a.c. 50Hz + -10% 5 watts	
Fitted with non-rewireable 13 amp plug	-	with 3 amp fuse.	
Two LED indicators	-	Indicates mains On and line power On	
Fixing	-	Two tabs fixing centres 193mm	
Size	-	207mm L x 96mm W x 51mm D	
Weight	-	Shipping weight 700 grammes	
C.E. compliance	-	Approved	
Order code	-	8 Way	



We recommend the use of double isolated outlet sockets for maximum safety.

* Alternative U.H.F. station shown in dotted lines.



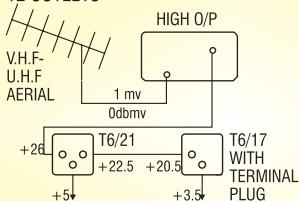
The High Output Distribution Amplifier is a compact V.H.F. – U.H.F. mains operated unit, and is ideal for small radio/television systems.

A range of T6 Fringe splitter units are available for use with these amplifiers. Provisions are available to line power any Fringe model masthead amplifier. Supplied with installation and application notes.

S P E C I F I C A T I O N S

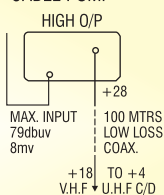
V.H.F. – U.H.F.	–	47 – 860MHz
Gain per socket	–	28db.
Flatness	–	+ –1.5db.
Noise figure	–	3.4db.
Output	–	223mv – 107dbuv
Supply voltage	–	230v a.c. @ 50Hz + –10% 5 watts
Fitted with non-rewireable 13 amp plug	–	with 3 amp fuse
Masthead powering	–	Any Fringe model 12v @ 35m.a.
LED indicator	–	Indicates mains switched on
Size	–	207mm L x 96mm W x 51mm D
C.E. compliance	–	Approved
Mounting	–	Two tabs fixing centres 193mm
Order code	–	High Output

12 OUTLETS



Suitable for all channels
V.H.F. A, B, C, D.

CABLE PUMP



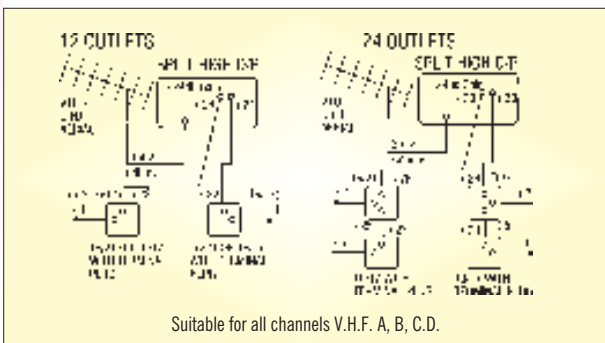
Actual length of cable and losses incurred depend on the grade of coax. used.



This distribution amplifier is a compact V.H.F. – U.H.F. mains operated unit. It has two output sockets to facilitate the easy installation of a small radio/television system. A range of T6 Fringe splitter units are available for use with these amplifiers. Provisions are available to line power any Fringe model masthead amplifier. Supplied with installation and application notes.

S P E C I F I C A T I O N S

V.H.F. – U.H.F.	–	47 – 860MHz
Gain per socket	–	24db.
Flatness	–	+ –1.5db.
Noise figure	–	3.4db.
Output per socket	–	141mv – 103dbuv
Supply voltage	–	230v a.c. @ 50Hz + –10% 5 watts
Fitted with non-rewireable 13 amp plug	–	with 3 amp fuse.
Masthead powering	–	Any Fringe model 12v @ 35m.a.
LED indicator	–	Indicates mains switched on
Size	–	207mm L x 96mm W x 51mm D
C.E. compliance	–	Approved
Mounting	–	Two tabs fixing centres 193mm
Order code	–	Split High Output





Available to order –
Fully screened to C.E.
compliance.

DIPLEXERS U.H.F – U.H.F.

Type	From CH to CH		Standard Model	Special With Thru Power
A – E	21-34	39-68	●	
A – E	21-34	39-68		● With Thru Leg A
A – E	21-34	39-68		● With Thru Leg E
K – C.D.	21-47	48-68	●	
K – C.D.	21-47	48-68		● With Thru Leg K
K – C.D.	21-47	48-68		● With Thru Leg C.D.
A.B. to part C.D.	21-53	54-68	●	
A.B. to part C.D.	21-53	54-68		● With Thru Leg A.B.
A.B. to part C.D.	21-53	54-68		● With Thru Leg C.D.
Special K. to C.D. 50/52	21-50	52-68		● Individually Tuned
Special K. to C.D. 50/52	21-50	52-68		● With Thru Leg K
Special K. to C.D. 50/52	21-50	52-68		● With Thru Leg C.D.
A + 37 to E	21-37	40-68		
A + 37 to E thru Leg E	21-37	40-68		●
A + 37 to E thru Leg A	21-37	40-68		●
A to 37 + E	21-34	37-68		
A to 37 + E thru Leg A	21-34	37-68		●
A to 37 + E thru Leg E	21-34	37-68		●

DIPLEXERS V.H.F.–U.H.F.

Type		Standard Model	With Thru Power
V.H.F. – U.H.F.	V.H.F. 40-230MHz to U.H.F. 470-860MHz	●	With Thru Power on U.H.F. Leg
V.H.F. – U.H.F.	V.H.F. 40-230MHz to U.H.F. 470-860MHz	●	With Thru Power on V.H.F. Leg
MMDS – U.H.F.	MMDS dc-400MHz to U.H.F. 470-860MHz		With Thru Power on MMDS Leg



S P E C I F I C A T I O N S

Through loss on above models	–	1db.
Out of band rejection on above models	–	20db.

This product is supplied as electromagnetically benign apparatus. It should not be used where installation will compromise the EMC integrity of a system i.e. MATV etc. CE marked product should be used if in doubt.



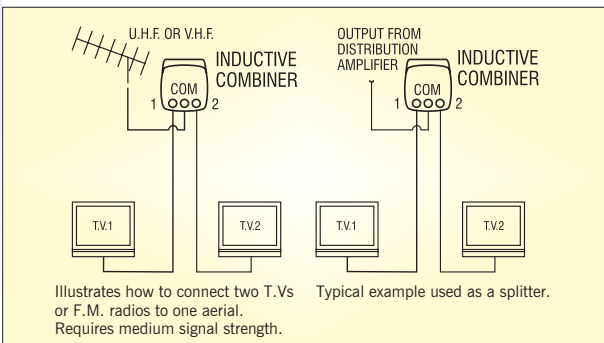
Available to order – Fully screened to C.E. compliance.

Ultra-Wideband low loss, outdoor unit for combining and splitting V.H.F. and U.H.F. signals. Has low insertion loss and good isolation between inputs. Through power on one leg allows a masthead amplifier to be fitted.

S P E C I F I C A T I O N S

V.H.F. – U.H.F.	–	40 – 860MHz wideband
Average insertion loss	–	3.5db.
Side rejection	–	20db.
Through power on one leg	–	To provide Masthead powering
Order code	–	Inductive Splitter

This product is supplied as electromagnetically benign apparatus. It should not be used where installation will compromise the EMC integrity of a system i.e. MATV etc. CE marked product should be used if in doubt.



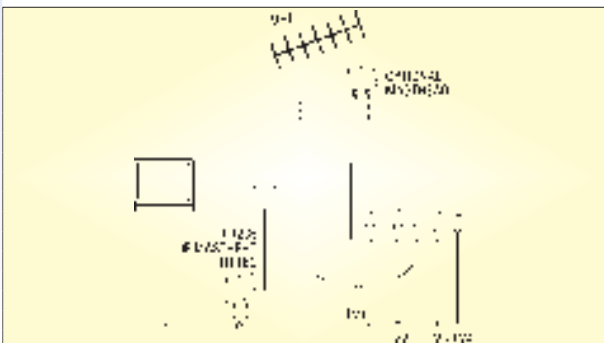


The 4 Way External Inductive Splitters are ultra-wideband, low loss units for splitting V.H.F. and U.H.F. signals to 4 televisions/radios.

In strong signal areas they provide easy signal distribution, without the need for additional masthead amplification. However, through power on one leg allows a masthead amplifier to be fitted in poorer signal areas. The units have low insertion loss and good isolation between inputs. The unit is screened and CE compliant.

S P E C I F I C A T I O N S

V.H.F. – U.H.F.	–	40 – 860MHz wideband
Through loss	–	All taps -7.5db.
Side rejection	–	1 to 2 & 3 to 4 -18db.
	–	3 or 4 to 1 or 2 -23db
D.C Pass	–	Common to 1
Order code	–	4 Way Inductive Splitter



Available to order – Fully screened to C.E. compliance.

A simple low cost, weather proof unit, designed to join/repair coaxial cables correctly and economically.

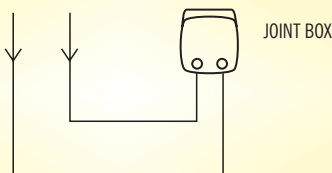

S P E C I F I C A T I O N S

V.H.F. – U.H.F.	–	0 – 860MHz Wideband
Through loss	–	0.25db.
Through power	–	Yes.
Order code	–	Joint Box

A P P L I C A T I O N S

- Temporary joins and extensions.
- Alterations of distribution cables.
- Repair damaged cables when conditions do not allow the whole run to be replaced.
- Permanent joint from outdoor aerial to wall mounted coaxial socket.

This product is supplied as electromagnetically benign apparatus. It should not be used where installation will compromise the EMC integrity of a system i.e. MATV etc. CE marked product should be used if in doubt.



Designed to join/repair coaxial cable outdoors economically. Thru loss 0.25db. includes thru power.



A range of resistive splitter units, for use with Fringe 7 Way – High Output – Split High Output and Super Setback.

Three models of attenuation are available, fitted with sockets. Supplied with application notes.

S P E C I F I C A T I O N S

Model	Tap down	Isolation	Through Loss	Order Code
T6/21	-21db.	40db.	3.5db.	T6.21S
T6/17	-17db.	34db.	3.5db.	T6.17S
T6/14T	-14db.	25db.	Terminal	T6.14ST

Figures quoted assume all outputs are terminated 75ohm

Frequency range	–	0 - 860MHz
Fixing	–	Two screw holes
Colour	–	White 1 Gang mounting frame
Fixing area	–	88mm L x 88mm W.
C.E. compliance	–	Approved

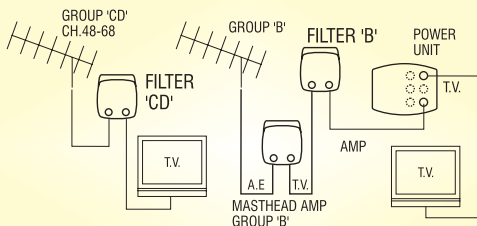


U.H.F. channel group bandpass filters for either group A, B, or C/D. Passes a given channel group with a maximum of 2db. through loss, with up to 17db. of attenuation of the other two channel groups. Helps to prevent local U.H.F. breakthrough on a weaker alternative group.



S P E C I F I C A T I O N S

	Channels	Order Code
Group A	21 – 34	A Filter
Group B	39 – 53	B Filter
Group C.D.	48 – 68	C/D Filter
Out of band rejection	–	Greater than 17db.
Through loss	–	Not exceeding 2db.
D.C. Through Pass	–	On all models
C.E. compliance	–	Approved



C.D. filter reduces group A, B V.H.F. unwanted signals.

B filter reduces group A, C/D V.H.F. unwanted signals.



Outdoor unit suitable for V.H.F. and U.H.F., designed to reduce the signal to an acceptable level, in very high signal strength locations.
Available in four attenuation levels.

May be used to balance unequal signals into diplexers, to prevent overloading.

S P E C I F I C A T I O N S

Four models available		Order Code
6db.	–	6db. Attenuator
12db.	–	12db. Attenuator
18db.	–	18db. Attenuator
24db.	–	24db. Attenuator
Impedance	–	75 ohms
C.E. compliance	–	Approved

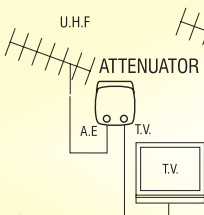


FIGURE 1

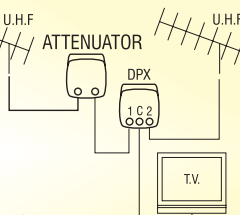


FIGURE 2

Figures 1 & 2 illustrate how strong local signals may be attenuated, preventing overloading and balancing signal levels. Fit either -6db. -12db. -18db. -24db. as applicable.



Rejects unwanted signals in the 120 – 240MHz V.H.F. Band, e.g. to reject local Public Service Transmissions from a V.H.F. system. Housed in our standard outdoor enclosure.

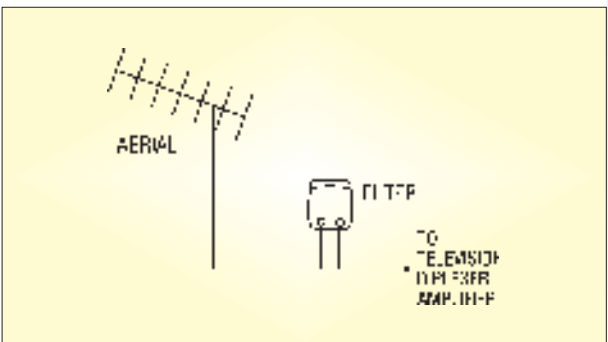


S P E C I F I C A T I O N S

Frequency	–	Tuned to your requirements between 120 – 240MHz.
Through loss	–	40 – 860MHz less than 1db.
Rejection	–	36db. (120 – 240MHz).
Bandwidth	–	–3db. –20MHz.
C.E. compliance	–	Approved
Order code	–	V.H.F. Rejection Filter

STATE FREQUENCY REQUIRED.

Note: No d.c. through pass is provided via the filter.



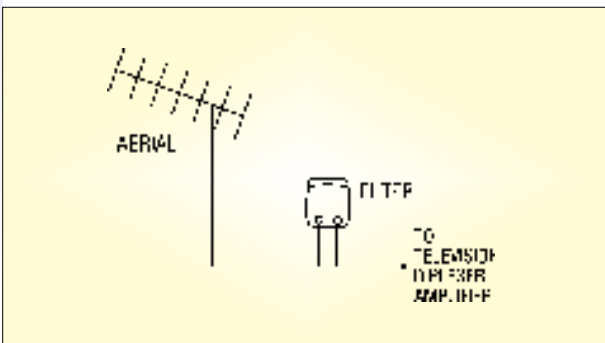


Will reject 27MHz C.B. radio signals, when other V.H.F. signals are required e.g. V.H.F./F.M. radio signals via a wide band distribution system.
Housed in our standard outdoor enclosure.

S P E C I F I C A T I O N S

Through loss	–	40 – 860MHz less than 1db.
Rejection	–	@ 27MHz 30db.
C.E. compliance	–	Approved
Order code	–	27MHz C.B. Filter

Note: No d.c. through pass is provided via the filter.





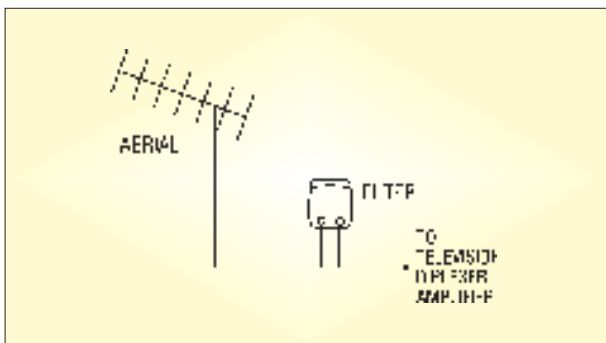
Designed to reject High Frequency and V.H.F. signals outside the U.H.F. T.V. spectrum (470 – 860MHz) e.g. to reject local V.H.F. radio telephone transmissions. Housed in our standard outdoor enclosure.



S P E C I F I C A T I O N S

Through loss	–	470 – 860MHz less than 1db
Rejection	@	300MHz – 18db.
	@	200MHz – 36db.
	@	145MHz – 44db.
	@	100MHz – 50db.
	@	50MHz – 56db.
	@	30MHz – 60db.
	Below	30MHz – Greater than 60db.
C.E. compliance	–	Approved
Order code	–	High Pass Filter

Note: No d.c. through pass is provided via the filter.



U.H.F. CHANNEL ALLOCATION



STATION CHANNEL NUMBER

LONDON AND SOUTH EAST OF ENGLAND

CRYSTAL PALACE	26	33	23	30	37	25	22	32	28	34	29	A	H
Guildford	40	46	43	50	-	49	44	41	51	47	54	B	V
Reigate	57	63	60	53	-	31	21	24	27	39	66	W	V
Tunbridge Wells	51	44	41	47	-	55	61	42	45	39	59	E/W	V
Hemel Hempstead	51	44	41	47	-	48	55	60	59	62	65	E/W	V
BLUEBELL HILL	40	46	43	65	-	59	24	27	45	42	39	W	H
DOVER	50	56	66	53	-	68	61	55	58	57	60	C/D	H/V
Croydon Old Town	49	56	52	67	59	-	-	-	-	-	-	C/D	H/V

SOUTH OF ENGLAND

ROWBRIDGE	31	24	27	21	34	23	52	30	32	26	33	W	H
Salisbury	57	63	60	53	68	55	56	59	62	65	52	C/D	V
Whitehawk Hill Brighton	57	63	60	53	-	66	50	55	48	58	61	C/D	V
HANNINGTON	39	45	42	66	35	50	43	40	46	44	41	W	H
MIDHURST	61	55	58	68	-	56	65	62	59	64	60	C/D	H
HEATHFIELD	49	52	64	67	-	34	29	48	47	54	51	W	H
Hastings	22	25	28	32	-	31	27	21	24	63	60	W	V
FREMONT POINT	51	44	41	47	-	-	-	-	-	-	-	B	H

EAST ANGLIA

TACOLNESTON	62	55	59	65	52	63	60	53	58	61	64	E/W	H
Norwich Central	39	45	49	42	33	-	-	-	-	-	-	K	V
SUDBURY	51	44	41	47	35	49	68	48	39	54	50	E/W	H
Chelmsford	-	-	-	-	63	-	-	-	-	-	-	C/D	H
SANDY HEATH	31	27	24	21	39	42	45	43	67	40	46	W	H
Cambridge	-	-	-	-	34	-	-	-	-	-	-	A	H

WEST COUNTRY

MENDIP	58	64	61	54	37	59	55	62	65	56	67	E/W	H
Bristol K.W.	45	48	42	52	-	22	25	28	32	30	34	W	V
Bristol I.C.	40	46	43	50	-	49	39	41	44	47	51	B	V
STOCKLAND HILL	33	26	23	29	-	22	28	25	32	30	34	A	H
BEACON HILL	57	63	60	53	-	52	61	58	54	56	64	C/D	H
HUNTSRAW CROSS	55	62	59	65	67	54	58	61	64	53	57	C/D	H
Huntshaw Cross Filler	-	-	-	-	-	-	-	-	-	51	47	C/D	H
CARADON HILL	22	28	25	32	-	34	31	48	21	24	27	W	H
Plympton	58	64	61	54	30	52	67	66	60	63	56	W	V
REDRUTH	51	44	41	47	37	39	42	45	49	43	50	B	H

U.H.F. CHANNEL ALLOCATION



STATION	CHANNEL NUMBER												CHANNEL GROUP	POLARISATION
WALES														
WENVOE	44	51	41	47	-	30	34	40	50	43	46	W	H	
Kilvey Hill	33	26	23	29	35	25	22	28	32	21	31	A	V	
Aberdare	21	27	24	31	-	28	32	23	26	29	33	A	V	
Pontypool	21	27	24	31	-	52	48	42	45	22	28	W	V	
CARMEL	57	63	60	53	-	55	65	59	62	68	66	C/D	H	
PRESELY	46	40	43	50	37	47	51	39	42	45	49	B	H	
BLAENPLWYF	31	27	24	21	56	28	22	25	32	29	33	W	H	
LLANDONA	57	63	60	53	-	50	54	58	61	64	46	C/D	H	
MOEL-Y-PARC	52	45	49	42	-	54	58	61	64	30	34	W	H	
MIDLANDS														
SUTTON COLDFIELD	46	40	43	50	37	41	44	47	51	52	55	B	H	
Brierley Hill	57	63	60	53	-	68	65	56	59	66	62	C/D	V	
Bromsgrove	31	27	24	21	-	34	29	33	23	26	30	A	V	
Malvern	56	62	66	68	-	52	39	47	44	51	41	W	V	
Lark Stoke	33	26	23	29	-	21	31	24	27	57	60	W	V	
Fenton	31	27	24	21	35	34	30	22	25	28	32	A	V	
THE WREKIN	26	33	23	29	35	21	31	24	27	53	57	W	H	
THE WREKIN (B)	-	-	-	-	-	39	49	42	45	-	-	W	H	
RIDGE HILL	22	28	25	32	35	53	57	60	63	42	45	W	H	
Churchdown Hill	-	-	-	-	48	-	-	-	-	-	-	B	H	
OXFORD	57	63	60	53	49	34	68	51	52	48	29	W	H	
WALTHAM	58	64	61	54	35	49	23	26	33	45	42	W	H	
Nottingham	21	27	24	31	34	39	67	53	63	29	59	W	V	
NORTH WEST														
WINTER HILL	55	62	59	65	48	56	66	63	67	60	63	C/D	H	
Winter Hill Filler	-	-	-	-	-	-	-	-	-	43	40	E/W	H	
Pendle Forest	22	28	25	32	-	21	24	27	31	30	34	A	V	
Saddleworth	52	45	49	42	-	47	41	44	51	39	54	B	V	
Storeton	22	28	25	32	39	30	34	23	26	29	33	A	V	
Lancaster	31	27	24	21	-	28	22	25	32	34	30	A	V	

U.H.F. CHANNEL ALLOCATION



STATION

CHANNEL NUMBER

YORKSHIRE

EMLEY MOOR	44	51	47	41	37	52	40	43	46	50	49	B	H
Sheffield	31	27	24	21	67	39	53	57	60	45	42	W	V
Chesterfield	33	26	23	29	-	34	40	43	46	50	52	W	V
Keighley	58	64	61	54	-	48	68	66	53	30	34	W	V
Idle	21	27	24	31	-	45	53	34	56	30	42	W	V
BELMONT	22	28	25	32	56	30	48	68	66	60	57	W	H
Olivers Mount	57	63	60	53	66	49	67	54	58	61	64	C/D	V

NORTH EAST

BILSDALE	33	26	29	23	35	34	21	31	24	27	42	K/W	H
PONTOP PIKE	58	64	61	54	68	48	55	59	62	65	53	C/D	H
Fenham	21	27	24	31	56	30	22	25	28	32	57	W	V
CHATTON	39	45	49	42	-	40	50	43	46	47	51	B	H

BORDERS

CALDBECK	30	34	28	32	56	25	23	26	39	45	42	W	H
Cambert Hill	44	51	41	47	37	-	-	-	-	-	-	B	H/V
SELKIRK	55	62	59	65	52	53	57	60	63	66	56	C/D	H

CENTRAL SCOTLAND

BLACK HILL	40	46	43	50	37	41	47	44	51	55	65	E/W	H
Torosay	22	28	25	32	-	23	26	29	33	21	31	A	V
DARVEL	33	26	23	29	35	22	25	32	28	30	34	A	H
Milburn Muir	39	52	42	49	45	-	-	-	-	-	-	B	V
Rosneath	58	64	61	54	-	67	53	57	60	63	48	C/D	V
CRAIGKELLY	31	27	24	21	48	33	29	23	26	42	39	W	H
ANGUS	57	63	60	53	-	68	66	59	62	56	65	C/D	H
Tay Bridge	51	44	41	47	34	-	-	-	-	-	-	B	V



STATION	CHANNEL NUMBER											CHANNEL GROUP	POLARISATION
GRAMPIAN & HIGHLANDS													
DURRIS	22	28	25	32	67	30	34	52	51	41	44	W	H
Peterhead	55	62	59	65	68	-	-	-	-	-	-	C/D	V
KNOCK MORE	33	26	23	29	-	34	30	53	57	60	56	W	H
ROSEMARKIE	39	45	49	42	67	47	51	41	44	46	50	C/D	H
EITSHAL	33	26	23	29	-	34	30	22	25	28	32	A	H
RUMSTER FOREST	31	27	24	21	-	28	22	25	32	62	59	W	H
KEELYLANG HILL	40	46	43	50	-	48	52	41	44	47	51	B	H
Bressay	22	28	25	32	-	21	24	27	31	66	68	W	V
NORTHERN IRELAND													
DIVIS	31	27	24	21	37	29	33	23	26	48	34	K/W	H
LIMAVADY	55	62	59	65	-	67	58	53	57	60	63	C/D	H
Londonderry	51	44	41	47	31	-	-	-	-	-	-	B	V
BROUGHAN MTN	22	28	25	32	-	30	34	23	26	29	33	A	H

Type in capitals indicates main transmitter.

Not all analogue transmitters are shown.

Some Channel 5 transmitters are not on the same site and may be of lower power than their associate analogue transmitters.

Further up-to-date information may be obtained from the ITC website:

www.itc.org.uk

All products listed are 75ohms and measurements are taken at that impedance.

OUTPUT LEVELS

These are to the DIN 45004/B 3 tone test at -60 IMD.

NOISE FIGURES

These are the average of five measurements taken across the full specified bandwidth of the amplifier. The noise figure variation across the bandwidth does not exceed +−1db. Measurements are made using a direct reading meter with a modulated solid state noise source.

LIMITS OF ACCURACY

Measurements are taken from random production samples and may deviate by the accuracy of the instruments used. Variations in production can occur but a worst case should not degrade specification by more than 1db. A list of current instruments is available on request.

All products are 100% tested for gain/loss and masthead amplifiers are also given a subjective performance test on a T.V.

CE STANDARDS

Parts of EN50082-1

Parts of EN50081-1

EN55014

Where applicable EN60056

PATENTS

Many of the Fringe products screening is protected by Patent No. GB 2308511B

Fringe Electronics Ltd. reserve the right to improve and change specifications without notice.

db. mv.	uv.	db. uv.	db. mv.	mv.	db. uv.
-40	10.00	20	+11	3.55	71
-39	11.22	21	+12	3.98	72
-38	12.59	22	+13	4.47	73
-37	14.13	23	+14	5.01	74
-36	15.85	24	+15	5.62	75
-35	17.78	25	+16	6.31	76
-34	20.00	26	+17	7.08	77
-33	22.40	27	+18	7.94	78
-32	25.10	28	+19	8.91	79
-31	28.20	29	+20	10.00	80
-30	31.60	30	+21	11.22	81
-29	35.50	31	+22	12.59	82
-28	39.80	32	+23	14.13	83
-27	44.70	33	+24	15.85	84
-26	50.10	34	+25	17.78	85
-25	56.20	35	+26	19.95	86
-24	63.10	36	+27	22.39	87
-23	70.80	37	+28	25.12	88
-22	79.40	38	+29	28.18	89
-21	89.10	39	+30	31.62	90
-20	100.00	40	+31	35.48	91
-19	112.20	41	+32	39.81	92
-18	125.90	42	+33	44.67	93
-17	141.30	43	+34	50.12	94
-16	158.50	44	+35	56.23	95
-15	177.80	45	+36	63.10	96
-14	199.50	46	+37	70.79	97
-13	223.90	47	+38	79.43	98
-12	251.20	48	+39	89.13	99
-11	281.80	49	+40	100.00	100
-10	316.20	50	+41	112.20	101
-9	354.80	51	+42	125.90	102
-8	398.10	52	+43	141.30	103
-7	446.70	53	+44	158.50	104
-6	501.20	54	+45	177.80	105
-5	562.30	55	+46	199.50	106
-4	631.00	56	+47	223.90	107
-3	707.90	57	+48	251.20	108
-2	794.30	58	+49	281.80	109
-1	891.30	59	+50	316.20	110
0	1.00mv	60	+51	354.80	111
+1	1.12	61	+52	398.10	112
+2	1.26	62	+53	446.70	113
+3	1.41	63	+54	501.20	114
+4	1.58	64	+55	562.30	115
+5	1.78	65	+56	631.00	116
+6	2.00	66	+57	707.90	117
+7	2.24	67	+58	794.30	118
+8	2.51	68	+59	891.30	119
+9	2.82	69	+60	1000.00	120
+10	3.16	70			

U.H.F. RECEIVING AERIAL GROUPS AND COLOUR CODES

CHANNELS	GROUP	COLOUR
21-37	A	RED
35-53	B	YELLOW
48-68	C/D	GREEN
35-68	E	BROWN
21-68	W	WHITE
21-47	K	—


GUARANTEE TERMS

All Fringe products are guaranteed for a period of three years from date of purchase.

A four digit date code is used, all printed circuit boards are clearly stamped. The first two digits indicate week number, and the next two digits show the year.

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DEALERS STAMP



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