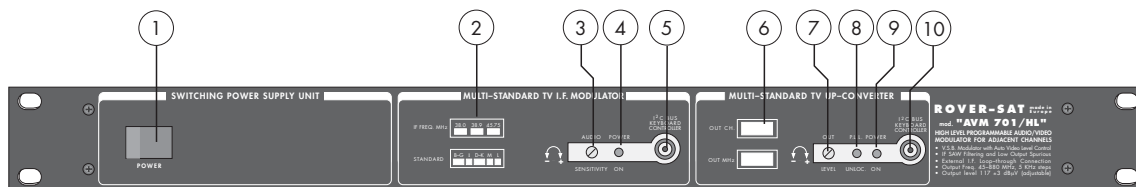


NEW!

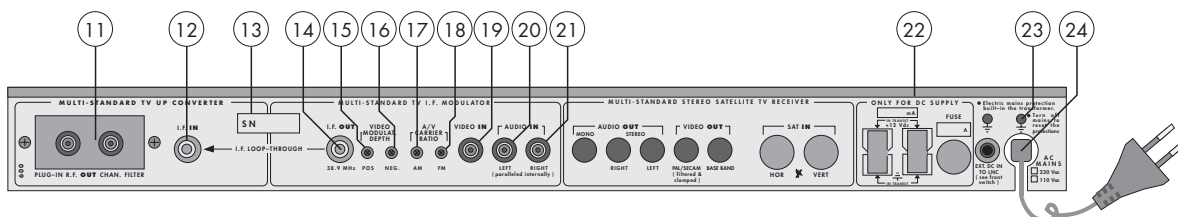
mod. "AVM 701/HL" F P
**HIGH LEVEL FULLY PROGRAMMABLE
 AUDIO/VIDEO CHANNEL MODULATOR
 FOR ADJACENT CHANNELS UP TO 870 MHz**

FRONT PANEL



- | | |
|---|--|
| <ul style="list-style-type: none"> 1 POWER ON key 2 TV IF modulator I.F. frequency and standard label 3 Modulator audio sensitivity trimmer 4 Modulator "POWER ON" LED 5 Modulator I²C BUS keyboard controller socket | <ul style="list-style-type: none"> 6 Output channel & frequency label 7 Output level adjustment trimmer 8 P.L.L. unlocked LED 9 Up-converter power on LED 10 Up-converter I²C BUS keyboard controller socket |
|---|--|

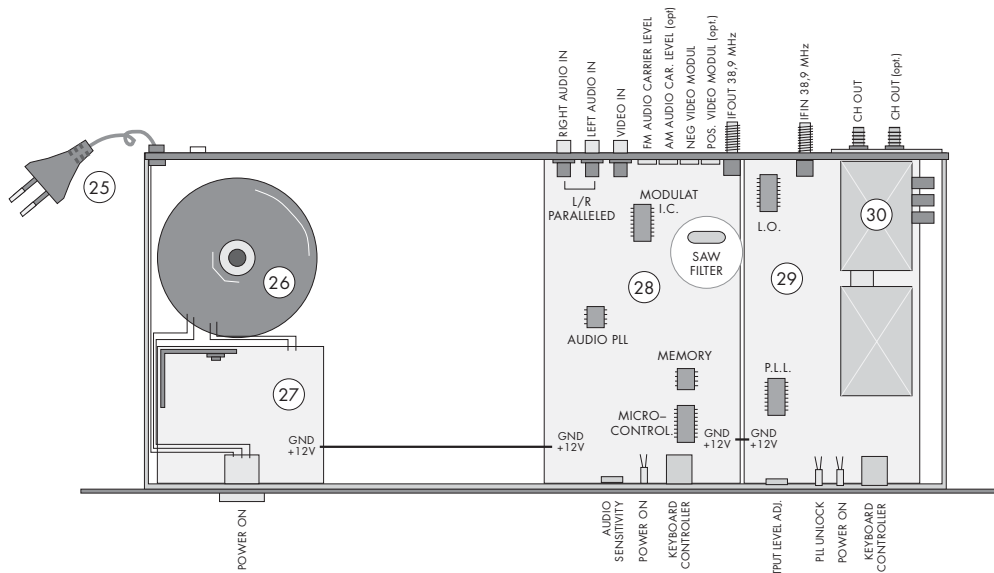
BACK PANEL



- | | |
|---|---|
| <ul style="list-style-type: none"> 11 Plug-in RF output channel filter (to be ordered) 12 Up converter IF input connector 13 Serial number label 14 Modulator I.F. output ("F" connector) 15 Positive video modulation depth trimmer (opt.) 16 Negative video modulation depth trimmer 17 AM audio carrier level trimmer (opt.) 18 FM audio carrier level trimmer | <ul style="list-style-type: none"> 19 Video input ("RCA" connector) 20 Left audio input ("RCA" connector) 21 Right audio input ("RCA" connector) 22 Area for ext. DC power supply (not in use) 23 Ground 24 Mains connection (230 Vac or 110 Vac) |
|---|---|

16

INTERNAL VIEW



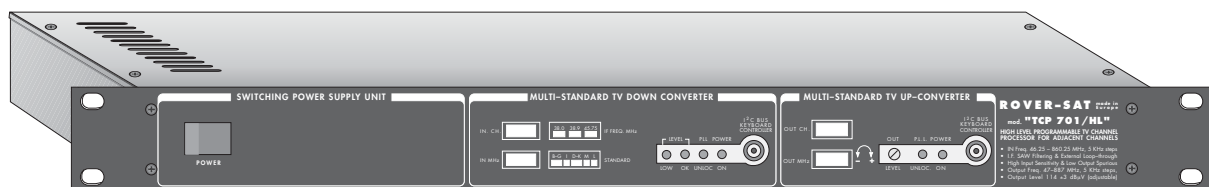
- 25 Mains cord
- 26 Transformer
- 27 Switching power supply board
- 28 I.F. modulator board
- 29 Up-converter board
- 30 Plug-in RF output channel filter (optional)

NEW!



mod. "TCP 701/HL"
**HIGH LEVEL FULLY PROGRAMMABLE
 MULTI-STANDARD TV CHANNEL PROCESSOR
 FOR ADJACENT CHANNELS UP TO 870 MHz**

- REMOTE PROGRAMMABLE VIA I2C BUS
- ALL STANDARDS AVAILABLE (B-G-I-D-K-L-M-N)
- ADJACENT CHAN. OPERATION IN ALL BANDS UP TO 870 MHz
- DUAL HETERODYNE CONVERSION THROUGH I.F. WITH A.G.C. AND INPUT LEVEL ALARM
- CONVENIENT FRONT PANEL TUNING CONTROLS AND ADJUSTMENTS
- DUAL P.L.L. SYNTHESIZED TUNING ASSURES FREQUENCY STABILITY
- SAW FILTERED TO ASSURE EXCELLENT CHANNEL SELECTIVITY & FLAT GROUP DELAY
- 5 KHz FREQ. RESOLUTION FOR PRECISE CHANNEL ALLOCATION
- EXTERNAL I.F. LOOP-THROUGH, ALLOWS SIGNAL REPLACEMENT WITH AN ALTERNATIVE I.F. SOURCE
- PLUG-IN OUTPUT FILTER TO ASSURE THE BEST SPURIOUS REDUCTIONS
- LOW OPERATING CONSUMPTION AND TEMPERATURE



TECHNICAL SPECIFICATIONS

DOWN CONVERTER

RF

- **Input frequency range:** 46.25-860.25 MHz, programmable 5 KHz steps
- **Frequency accuracy:** 1 KHz typ. (5 max.)
- **Input impedance:** 75 Ω , ("F" connector)
- **Input level range:** 55 - 80 dB μ V (85 max.)
- **I.F. output level:** 80 dB μ V \pm 2
- **Noise figure:** 5 dB \pm 2
- **A.G.C. range:** \pm 15 dB
- **A.G.C. stability:** \pm 1 dB, max 1.5 dB
- **Image frequency rejection:** \geq 70 dB
- **Adjacent channel rejection:** \geq 60 dB

UP CONVERTER

RF

- **I.F. input frequency:** 38.9 MHz (38 & 45.75 MHz opt.)
- **Input level:** 80 dB μ V \pm 5
- **Gain, IF to RF:** 38 dB, 40 dB max.
- **Output frequency range:** 45-887 MHz programmable 5 KHz steps
- **Frequency accuracy:** 1 KHz typ. (5 max.)
- **IN/OUT impedance:** 75 Ω ("F" connector)
- **Bandwidth:** 6-7-8 MHz (according to the standard)
- **Output level:** 114 dB μ V \pm 3 (adj.) filter loss included
- **Output return loss:** 16 dB typ. (12 min.)
- **Output spurious product:** 65 dB typ. (62 min.)

OTHERS

- **Power supply voltage:** 220 Vac or 110 on request
- **RF connector:** "F" type
- **Audio/Video connector:** "RCA" (or BNC with adapter)
- **Operating temperature:** -25/+60°C
- **Relative humidity:** 90%
- **Dimensions:** 1 rack unit 485 x 185 x 45 mm
- **Weight:** 2.1 Kg

OPTIONS

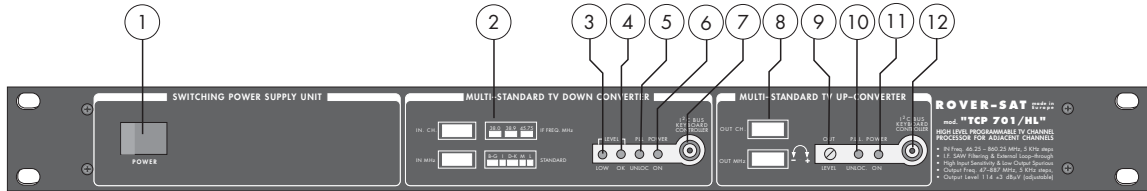
- **Plug-in output filter** order separately according to the channel standard:
 - mod. "OCF 500/..."
- **Keyboard controller**
 - mod. "KBC 600/700" only one for all models in the 600 & 700 series

15

NEW!

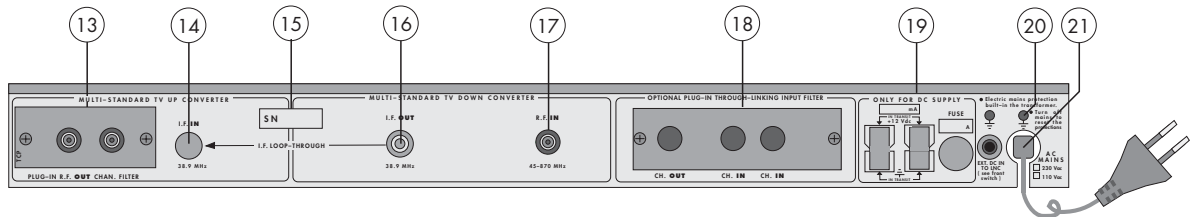
mod. "TCP 701/HL"
HIGH LEVEL FULLY PROGRAMMABLE
MULTI-STANDARD TV CHANNEL PROCESSOR
FOR ADJACENT CHANNELS UP TO 870 MHz

FRONT PANEL



- | | |
|---|--|
| <ul style="list-style-type: none"> 1 POWER ON key 2 Down converter input channel, input frequency, I.F. frequency and standard indication label 3 Down converter Low input level alarm red LED 4 Down converter Normal input level green LED 5 Down converter P.L.L. unlocked LED 6 Down converter "POWER ON" LED | <ul style="list-style-type: none"> 7 Down converter I2C BUS keyboard controller socket 8 Up converter output channel & freq. indication label 9 Up converter Output level adjustment trimmer 10 Up converter P.L.L. unlocked LED 11 Up converter "POWER ON" LED 12 Up converter I2C BUS keyboard controller socket |
|---|--|

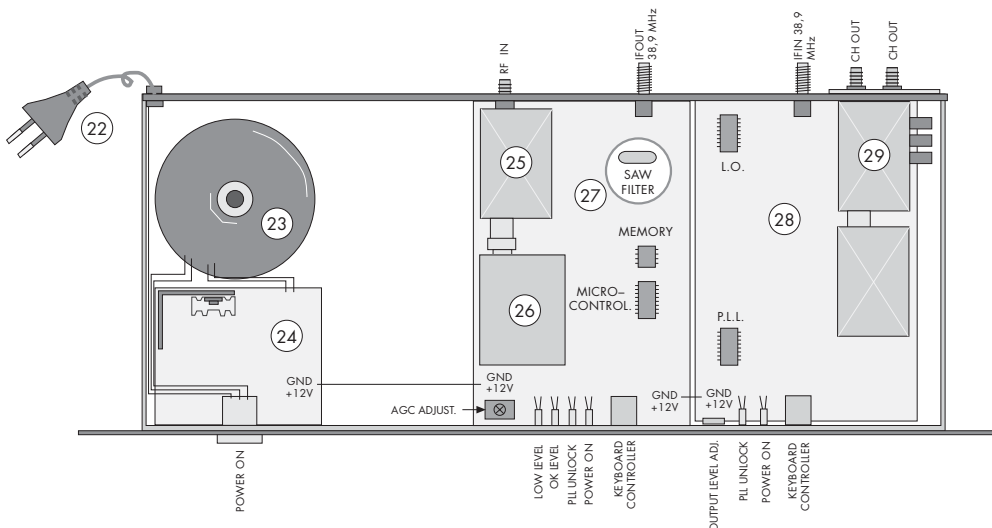
BACK PANEL



- | | |
|---|---|
| <ul style="list-style-type: none"> 13 Up-converter plug-in output channel filter (to be ordered) 14 IF input connector 15 Serial number label 16 Down-converter IF output connector | <ul style="list-style-type: none"> 17 Down converter, RF input, 45-870 MHz 18 Plug-in input through linking filter (opt.) 19 Area for ext. DC power supply (not in use) 20 Ground 21 Mains connection (230 Vac or 110 Vac) |
|---|---|

15

INTERNAL VIEW

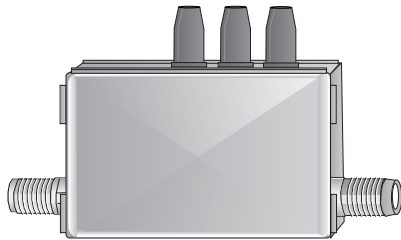


- 22 Mains cord
- 23 Transformer
- 24 Switching power supply board
- 25 Low noise input preamplifier
- 26 Tuner
- 27 TV down converter board
- 28 TV up converter board
- 29 Plug-in output channel filter (opt.)

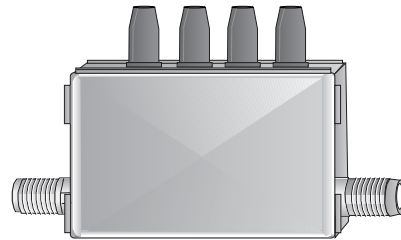


mod. "OCF 500/..."

VHF & UHF FAMILY OF FILTERS WITH HIGH SELECTIVITY FOR CATV HEAD-ENDS
WITH 1 INPUT & 1 OUTPUT, SUPPLIED ONLY ADJUSTED TO A SPECIFIC CHANNEL, WITH OR WITHOUT TRAP



mod. "OCF 500/..."
VHF/UHF



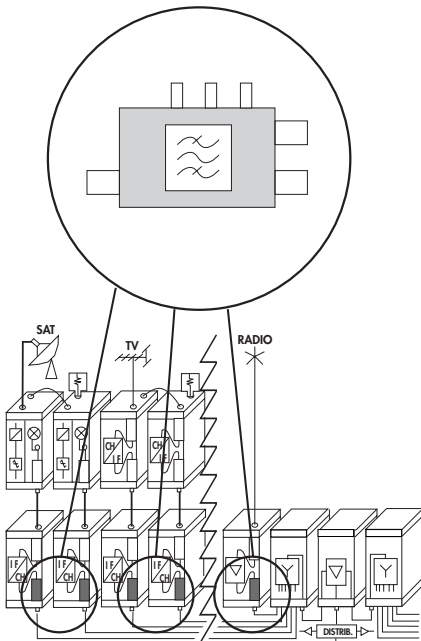
mod. "OCF 500/T..."
VHF/UHF

- ALL BANDS UP TO 870 MHz
- AVAILABLE IN ALL STANDARDS: B, G, I, D, K, M, L

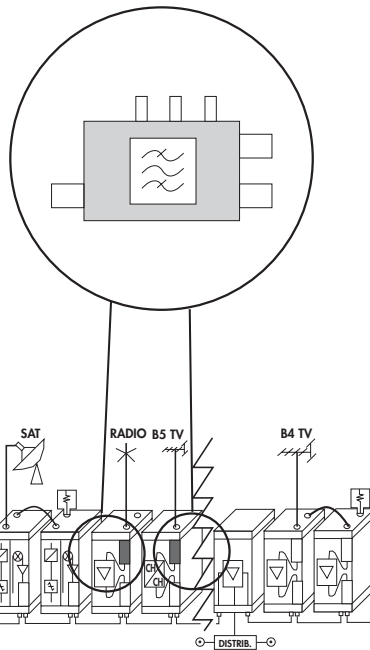
- EASY TO READJUST USING RO.VE.R. MEASURING INSTRUMENTS

- CAN BE INSERTED IN THE CONVERTERS, MODULATORS, PROCESSORS AND AMPLIFIERS DIRECTLY AT THE TIME OF SALE

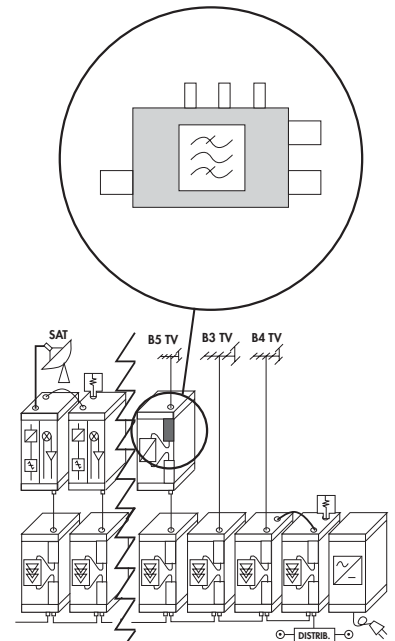
INSTALLATION EXAMPLE



ADJACENT CHANNEL CATV HEAD-END, UP TO 870 MHz, >60 dB SPURIOUS FREE



ALTERNATE CHANNEL SMATV HEAD-END WITH VHF-UHF WIDE BAND POWER AMPLIFIER



LOW COST ALTERNATE CH. SMATV HEAD-END WITH HIGH GAIN & HIGH LEVEL CH. AMPLIFIER

REDUCE DELIVERY TIME & STOCK, INCREASE AVAILABILITY & PRODUCT RANGE, WITH THE PLUG-IN FILTER TECHNIQUE

THE REVOLUTIONARY PLUG-IN FILTER TECHNIQUE ALLOWS YOU TO HAVE IN STOCK ONLY ONE UNIVERSAL MODEL FOR EACH FAMILY OF PRODUCTS AND QUICKLY ADAPT IT TO ANY CHANNEL BY SIMPLY INSERTING THE IN-OUT PLUG-IN CH. FILTERS. THE PLUG-IN

CH. FILTERS ARE THE SAME FOR ALL FAMILIES OF PRODUCTS. THE CHANNEL FILTERS ARE ONLY SUPPLIED ADJUSTED FOR ANY TV OR CABLE BAND OF ANY TV STANDARD AND THEY ARE QUITE EASY TO READJUST USING RO.VE.R. INSTRUMENTS SUCH AS THE MULTI-

FUNCTION CATV/SMATV ANALYZER. THE PLUG-IN FILTERS CAN BE INSERTED IN THE SYNTHESIZED CHANNEL CONVERTER AND A/V MODULATORS; IN THE CHANNEL PROCESSOR AND CHANNEL AMPLIFIER, DIRECTLY AT THE TIME OF SALE.

mod. "OCF 500/..."

VHF & UHF FAMILY OF FILTERS WITH HIGH SELECTIVITY FOR CATV HEAD-ENDS
WITH 1 INPUT & 1 OUTPUT, SUPPLIED ONLY ADJUSTED TO A SPECIFIC CHANNEL, WITH OR WITHOUT TRAP

TECHNICAL SPECIFICATIONS

RF

- **IN-OUT frequency:**
46-870 MHz
(40 MHz on request)
- **Bandwidth at -3 dB:**
6-7 or 8 MHz
(according to the standard)
- **Selectivity:**
VHF ± 7 MHz = -12 dB
 ± 14 MHz \leq -30 dB
UHF ± 8 MHz = -20 dB
 ± 16 MHz \leq -30 dB
- **Insertion loss:**
VHF = 4 - 5 dB
UHF = 4 - 5 dB
- **Return loss:**
VHF = 14 dB typ. (12 min.)
UHF = 16 dB typ. (12 min.)
- **Impedance:**
75 Ω ("F" connector)

OTHERS

- **External plating of metal box:**
all models with silver plate
- **Operating temperature:**
from -25 to +60°C
- **Relative humidity:** $\geq 90\%$
- **Dimensions:**
H: 42 x W: 76 x D: 20 mm
- **Weight:** 60 g

FREQUENCY TABLE

High selectivity filters, with 1 input and 1 output:

mod. OCF 500/A-01	49-65 MHz
mod. OCF 500/A-02	77-107 MHz
mod. OCF 500/FM-03	88-108 MHz
mod. OCF 500/A-03S	108-129 MHz
mod. OCF 500/A-04	130-160 MHz
mod. OCF 500/A-05	165-220 MHz

mod. OCF 500/A-06	225-380 MHz
mod. OCF 500/A-07	390-465 MHz
mod. OCF 500/A-08	470-600 MHz
mod. OCF 500/A-10	600-880 MHz

The "OCF 500/TA..." is also available and includes a channel trap with 10/18 dB atten.:

mod. OCF 500/TA-01	49-65 MHz
mod. OCF 500/TA-02	77-107 MHz
mod. OCF 500/TA-03S	108-129 MHz
mod. OCF 500/TA-04	130-160 MHz
mod. OCF 500/TA-05	165-220 MHz
mod. OCF 500/TA-06	225-380 MHz
mod. OCF 500/TA-07	390-465 MHz
mod. OCF 500/TA-08	470-600 MHz
mod. OCF 500/TA-10	600-880 MHz

The "OCF 500/A..." and "OCF 500/TA..." may only be ordered adjusted *

* always specify the channel when ordering (and trap frequency rejection)

INSIDE VIEWS

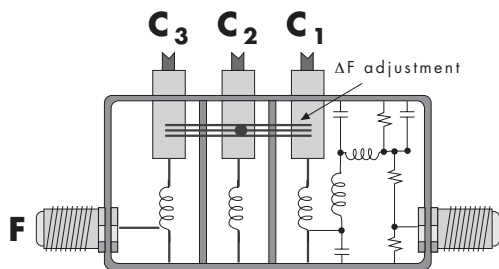


Fig. 1: **B I**

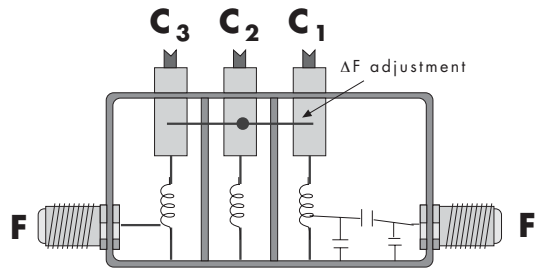


Fig. 2: **B III**

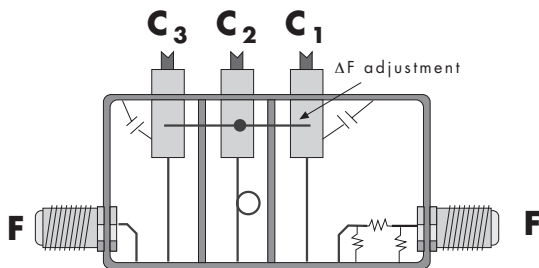


Fig. 3: **B IV**

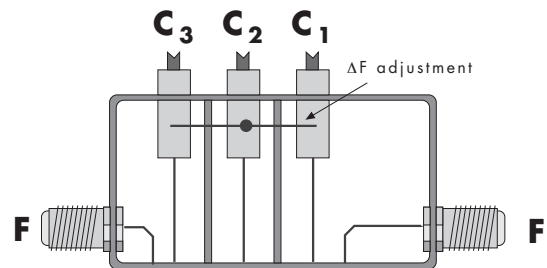


Fig. 4: **B V**