



## Product Datasheet : ENT312S-B

### Description

The ENT312S-B is a 75-100 Ohms RF amplifier/distributor designed for the TV transmission on twisted pairs home cabling. 3 ports are available to transmit digital and TV signals like TNT, CATV or SATELLITE.



### Features

- 1 port DVB-C / DVB-T
- 1 port DVB-C/ DVB-T
- 1 port DVB-S / DVB-T
- Low power consumption : ~410mA/5V
- Slope satellite : 10dB
- Slope CATV/Terrestrial : 10dB
- Gain Satellite : 15dB min
- Gain CATV : 15dB min
- Metal box including DIN fixation

### Applications

- CATV (DVB-C)
- Analog terrestrial
- Digital terrestrial (DVB-T)
- Satellite (DVB-S)
- Radio (FM)
- Digital radio (DAB)

### Electrical Specifications

Parameter	Unit	Port n°1	Port n°2	Port n°3
Frequency	MHz	450-2150	88-869 Rev. Path : 62.5	88-869 Rev. Path : 62.5
RF Gain	dB	15dB min @2.15 GHz	15dB min @ 869MHz	15dB min @ 869 MHz
RF Gain adjust	dB	No	-20dB	-20dB
Attenuation CATV reverse path	dB	No	Passive IL= 5dB	Passive IL=5dB
Output impedance	Ohms	100	100	100
Input level min	dBµV	60	60	60

Input level max	dB $\mu$ V	75	85	85
Gain adjust	dB	0	-20dB	-20dB
IM3 level / G Max (RF in = -20dBm)	dBm (dBc)	-58dBm (-47dBc)	-58dBm (-47dBc)	-58dBm (-47dBc)

**This product has been optimized for home twisted pairs home cabling based on GRADE 3 MTVS cable. Using this cable provide to user high performances to wall mounted outlets and future proof of the TV installation.**

#### Mechanical & Temperature range

Parameter	Level
Dimensions (Lxlxh)	70x90x48mm
Cover material	Inox steel 10/10
Base material	EZ steel 10/10 & EZ steel 5/10
Spring material	CuBe 15/10
Voltage	5 volts DC
Idd / 5V	450mA max.
Operating temperature	-10°C to +50°C
Storage temperature	-20°C to +70°C
IP level	IP 32

#### ESD and Moisture levels

Parameter	Level
ESD classification of RF amplifiers	
- Human body Model	Class 1A+
- Charged device model	Class IV
<b>ESD Protection by ESD suppressors</b>	
Low Capacitance: 0.05pF (typ. @1kHz)	
Operating voltage: 26VDC	
Clamping voltage (EN 61000-4-2) : 50V	
Trigger voltage : 300V	
Moisture sensitivity level of RF amplifiers	Level 3

#### RF gain measurements

Frequencies	Port n°1			Port n°2			Port n°3		
	Min.	Typ.	Max.	Min.	Typ.	Max.	Min.	Typ.	Max.
62 MHz	N.A.	N.A.	N.A.	-7.5dB	-5.8dB	-2dB	-7.5dB	-5.8dB	-2dB
87.5 MHz	N.A.	N.A.	N.A.	-4dB	+1.4dB	+3dB	-4dB	+1.4dB	+3dB
470 MHz	+1dB	+4.3dB	+8dB	+10dB	+13.8dB	+16dB	+10dB	+13.8dB	+16dB
865 MHz	+5dB	+7.4dB	+10dB	+15dB	+19.7db	+22dB	+15dB	+19.7db	+22dB
950 MHz	+6dB	+9.5dB	+12dB	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
2150 MHz	+16dB	+20.1dB	+25dB	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.

N.A. = not available at this frequency

#### Power supply adaptor specifications

Parameter	Level
Input voltage	100-240 V AC 50/60 Hz
Output voltage	5V DC / 1A
Efficiency vs. load:	
25%	65.93%
50%	70.75%
75%	70.85%
100%	70.45%
(T=23°C +/- 5°C)	
No load power consumption	0.149 W

Parameter	Level
Standard conformities	2005/32/EC EU278/2009 1 <sup>st</sup> stage ( $\leq 0.5W$ ) 2 <sup>nd</sup> stage ( $\leq 0.3W$ )
Type of adaptor	"Plug-in" 2P
Output connector	Jack 2.1mm
Markings	CE marking
Dimensions (Lxlxh)	72x41x25.5mm
Power cord length	1500mm +/- 100
Power cord type	UL 2464 24AWG

**Acome se réserve la possibilité de modifier les présentes caractéristiques sans notification préalables**