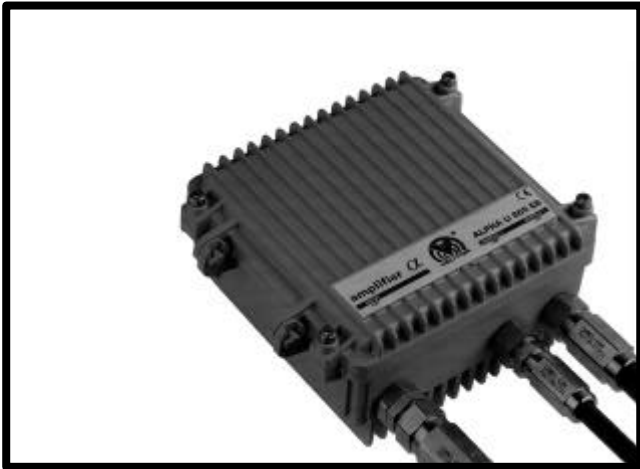


# ALPHA



## UNITS DESCRIPTION:

- Passive interface unit for HFC networks
- High quality and reliability
- Bi-directional transmission
- Forward path frequency range up to 862 MHz
- Plug-in diplex filters
- Plug-in high-pass filter in reverse path

## FORWARD

Bandwidth 85 ÷ 862 MHz  
 Flatness ± 0,7 dB  
 Group delay, Δf = 5,5 MHz:

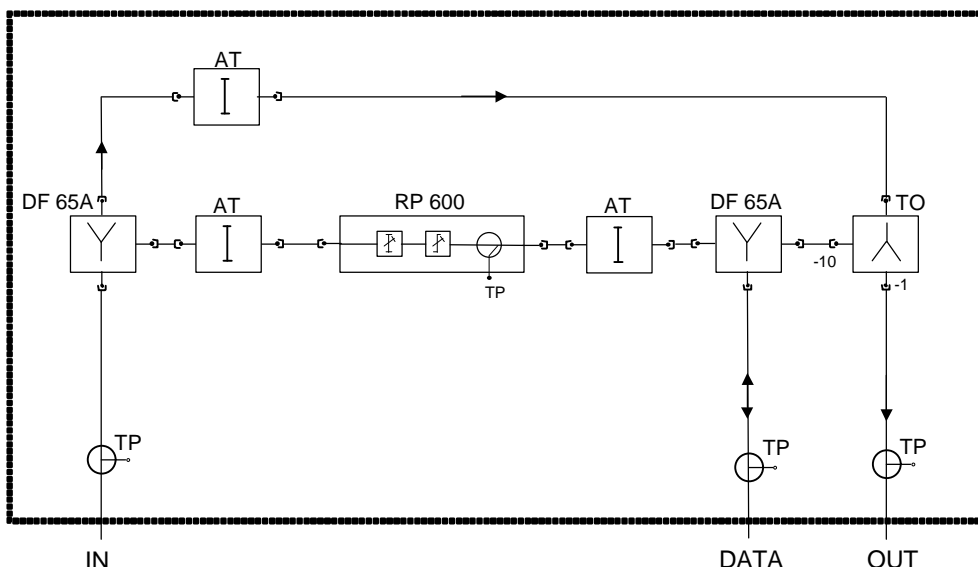
85 ÷ 90,5 MHz < 28 ns  
 90,5 ÷ 96 MHz < 12 ns  
 96 ÷ 101,5 MHz < 7 ns  
 > 107 MHz < 2,5 ns

Attenuation, in to out <3 dB  
 Attenuation, in to data (incl. TO 810) <13 dB

Adjustment (plug-in modules):

- Attenuation forward and reverse AT - fixed attenuator (0-21 dB, step 1 dB) or AV - variable attenuator (0-18 dB)

## BLOCK DIAGRAM



## REVERSE PATH

- PLUG-IN DIPLEX FILTERS AND PASSIVE MODULE RP 600

Bandwidth 5 ÷ 65 MHz  
 Flatness ± 0,7 dB  
 Attenuation, data to in < 3,5 dB  
 Group delay, Δf = 5,5 MHz

65 ÷ 59,5 MHz < 28 ns  
 59,5 ÷ 54 MHz < 12 ns  
 < 54 MHz < 6 ns

Attenuation control 0-18 dB  
 Slope control 0-10 dB  
 Input test point -20 dB directional

## INPUT / OUTPUTS

Number of RF ports 3 (1 input, 2 outputs)  
 Connectors input / outputs IEC M14 / 75 Ω  
 Return loss ≥18 dB (f ≤ 40 MHz)  
≥ 18 dB -1,5 dB /oct. (f > 40 MHz)  
 Test-point input, output,data bi-directional -20 dB (< ±1,5 dB)

## HOUSING

Degree of protection IP 663  
 Dimensions:  
 • width main body width 163 mm  
overall width (with hinge and screw-holders) 193 mm  
 • length 160 mm  
 • height 85 mm  
 Temperature range within specifications -25 ÷ +70 °C