



House amplifiers

High power amplifiers

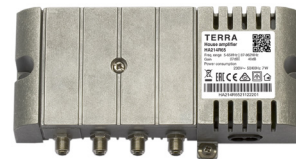
- built-in adjustable gain & slope regulators
- interstage discrete attenuator and equalizer
- switchable passive or active return path
- input attenuator for active return path
- test points: input - bi-directional, output - directional
- die-cast housing

HA214, HA215

local powered, without return path

HA214R65, HA215R65, HA216R65, HA216R85

local powered, with return path 65 MHz and 85 MHz



Technical specifications

T Y P E	HA214	HA214R65	HA215	HA215R65	HA216R65	HA216R85
Ordering number	10585	10586	10596	10597	10598	10599
Forward path						
Frequency range	47-862 MHz	87-862 MHz	47-1006 MHz	87-1006 MHz	87-1218 MHz	108-1218 MHz
Gain	40 dB					
Gain adjustment	0...18 dB					
Slope adjustment	0...18 dB					
Interstage attenuator	-10/-5/0 dB					
Interstage equalizer	-10/-5/0 dB					
Flatness*	±1 dB					
Input and output return loss	≥ 14 dB at 40 MHz; -1.5 dB/oct., but not less 10 dB					
Output level CTB, CSO (EN60728-3)**	106/108 dBμV			106/107 dBμV		
Noise figure	6 dB					
Test points***	-20 dB					
Return path						
Frequency range	-	5-65 MHz	-	5-65 MHz	5-85 MHz	
Gain, switchable	-	27/-5 dB	-	27/-5 dB		
Gain adjustment	-	0...18 dB	-	0...18 dB		
Input attenuator	-	-10/0 dB	-	-10/0 dB		
Output equalizer	-	-6/-3/0 dB	-	-6/-3/0 dB		
Flatness	-	±1 dB	-	±1 dB	±1.5 dB	
Return loss	-	> 14 dB	-	> 14 dB		
Noise figure	-	7 dB	-	7 dB		
Output level IMD3=60 dB (EN60728-3)	-	114 dBμV (active) 121 dBμV (passive)	-	114 dBμV (active), 121 dBμV (passive)		
General						
Power consumption	230 V~ 50/60 Hz 6 W	230 V~ 50/60 Hz 7 W	230 V~ 50/60 Hz 6 W	230 V~ 50/60 Hz 7 W		
Operating temperature range	-20° C ÷ +50° C					
Dimensions/Weight (packed)	185x91x47 mm/0.7 kg					

* for amplifiers with return path measured 10 MHz after the starting frequency of forward path

** with 0/5 dB interstage equalizer

*** input test point is bi-directional and could be used as return path output test point; output test point is directional and could be used for insertion return path signals

