



House amplifiers

High power amplifiers

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

HA204

local powered; without return path

HA204R30, HA204R65

local powered; with return path 30 MHz or 65 MHz

HD204

remote powered; without return path

HD204R30, HD204R65

remote powered; with return path 30 MHz or 65 MHz



Technical specifications

T Y P E	HA204	HA204R30	HA204R65	HD204	HD204R30	HD204R65
Ordering number	10511	10512	10513	10516	10514	10515
Forward path						
Frequency range	47- 862 MHz		87- 862 MHz	47- 862 MHz		87- 862 MHz
Gain*	36 dB					
Gain adjustment	18 dB					
Slope adjustment	18 dB					
Flatness*	±0.5 dB	±0.75 dB		±0.5 dB	±0.75 dB	
Input and output return loss	> 14 dB at 40 MHz; -1.5 dB/oct., but not less 10 dB					
Interstage attenuator	-6/-3/0 dB					
Interstage equalizer	-6/-3/0 dB					
Maximal output level CTB, CSO (EN50083-3)**	105 dBμV					
Noise figure	7.5 dB					
Test points	-20 dB					
Return path						
Frequency range	-	5-30 MHz	5-65 MHz	-	5-30 MHz	5-65 MHz
Gain, switchable	-	27/-3 dB		-	27/-3 dB	
Gain adjustment	-	18 dB		-	18 dB	
Input attenuator	-	-10/0 dB		-	-10/0 dB	
Output equalizer	-	-6/-3/0 dB		-	-6/-3/0 dB	
Flatness	-	±0.75 dB		-	±0.75 dB	
Return loss	-	> 14 dB		-	> 14 dB	
Noise figure	-	5 dB (active, 0 dB attenuator)		-	5 dB (active, 0 dB attenuator)	
Maximal output level IMD3=60 dB (DIN45004B)	-	115 dBμV (active)		-	115 dBμV (active)	
Ingress blocking filter attenuation	-	>20 dB up to 13.5 MHz; <1.5 dB from 18 MHz		-	>20 dB up to 13.5 MHz; <1.5 dB from 18 MHz	
General						
Power consumption	230 V~ 50 Hz 4 W	230 V~ 50 Hz 5 W		24-65 V~ 50 Hz 3.5 W	24-65 V~ 50 Hz 4 W	
Operating temperature range	-20° ÷ +50° C					
Dimensions/Weight (packed)	185x91x47 mm/ 0.68 kg					

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

** with 6 dB interstage equalizer

