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Extension amplifiers

2150 MHz amplifiers with return path. TV terrestrial and IF satellite distribution signals. SAE-920 designed to ICT2 (two outputs).



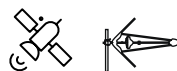
SAE-912 . SAE-916



SAE-920



2 models 1 output: TV+FI
1 model 2 outputs: TV+IF 1 ; TV+IF 2



Terrestrial and Satellite inputs



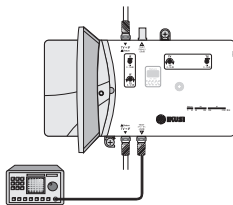
Output test

SAE amplifiers

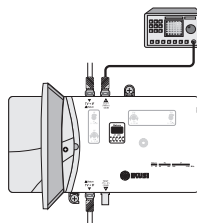
MODEL		SAE-912		SAE-916	
REF.		3500		3503	
Powering mode		Mains			
Bandwidth	Terrestrial (TV)	MHz	45 - 862	86 - 862	
	Satellite (BIS) Return		950 - 2150	950 - 2150	
			5 - 35 (passive path)	5 - 65 (active path)	
Terrestrial path (TV)					
Response flatness		dB	± 1.5		
Nominal gain		dB	35		
Variable interstage attenuator		dB	0 - 18		
Slope control range		dB	0 - 18		
Noise figure		dB	≤ 8		
Output level (DIN 45004B -60dB)		dBμV	118		
Output level (CTB, CSO -60dB, EN 42 ch)		dBμV	102		
Output test		dB	-20 ±1.5		
Satellite path (IF)					
Response flatness		dB	± 2		
Nominal gain		dB	40		
Variable interstage attenuator		dB	0 - 18		
Slope control range		dB	0 - 12		
Noise figure		dB	≤ 6		
Output level (EN 50083 -35dB)		dBμV	120		
Return path					
Nominal gain		dB	-2,5	12	
Selectable attenuation		dB	—	0 - 11	
Max RF input level		dBμV	—	98 ¹ / 93 ²	
Noise figure		dB	—	≤ 7	
Output level (DIN 45004B -60dB)		dBμV	—	110	
General					
Mains supply voltage (50/60 Hz)	VAC		230 - 240	230 - 240	
Consumption	W		8,5	9	
Dimensions	mm		222 x 140 x 44		

- Distribution of terrestrial TV, satellite IF and multimedia signals.
- 1 RF input - 1 RF output.
- Terrestrial and satellite frequencies amplified separately.
- Passive or active return path, with respective 35/45 MHz or 65/86 MHz splits.
- Attenuation and equalization adjustments of TV and IF signals by potentiometer.
- Zinc alloy housing with protective cover. F connectors. Wall fixing. Indoor mounting.

Output signal adjustment



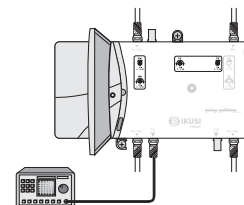
Output Control and Adjust signal return



MODEL		SAE-920	
REF.		3507	
Powering mode		Mains	
Bandwidth	Terrestrial (TV)	MHz	45 - 862
	Satellite (IF-1) Satellite (IF-2)		950 - 2150
			950 - 2150
RF inputs			2 (TV+IF-1 ; IF-2)
RF outputs			2 (TV+IF-1 ; TV+IF-2)
Terrestrial path (TV)			
Response flatness		dB	± 1,5
Nominal gain		dB	35
Variable interstage attenuator		dB	0 - 18
Slope control range		dB	0 - 18
Noise figure		dB	≤ 8
RF output level (DIN 45004B -60dB)		dBμV	118
RF output level (CTB, CSO -60dB, EN 42 ch)		dBμV	102
Output test		dB	-20 ± 1.5
Satellite path			
Response flatness		dB	± 2
Nominal gain		dB	40
Variable interstage attenuator		dB	0 - 18
Slope control range		dB	0 - 12
Noise figure		dB	≤ 6
RF output level (EN 50083 -35dB)		dBμV	120
Output test		dB	-20 ± 1.5
General			
Operating temperature		°C	-10 ... +55
Mains supply voltage		VAC	110 - 240
Consumption		W	15
Dimensions		mm	222 x 140 x 44

- Application in collective installations with two download distribution cables carrying 2 satellite IF and 1 terrestrial TV signals.
- 1 TV + IF-1 input — 1 IF-2 input
- 1 TV + IF-1 output — 1 TV + IF-2 output
- Separated amplification paths for TV, IF-1 and IF-2 signals, each including attenuation and equalization adjustment potentiometers.
- GaAs-MESFET technology used for terrestrial amplification.
- External 75Ω output test ports.
- Zinc alloy housing with protective cover for adjustment potentiometers.
- F type connection. Wall-fixing
- Indoor mounting. Grounding terminal.

Output signals adjustment TV+IF-1



Output signals adjustment TV+IF-2

