

WIDEBAND AMPLIFIERS SD1200

- INTENDED FOR INTERACTIVE CABLE NETWORKS DESIGNING.
- DIFFERENT DESIGN VERSION OPTIMIZED FOR OPERATING IN ANY CABLE NETWORK SEGMENTS.
- CHANGEABLE MODULES:
 - INPUT EQUALIZER;
 - INTERSTAGE EQUALIZER;
 - OUTPUT POWER SPLITTER;
 - ADDITIONAL RETURN PATH AMPLIFIER.
- MODELS FOR ANY POWER SUPPLY TYPE:
 - MAINS;
 - REMOTE;
 - COMBINATION.
- CURRENT TRANSITION TO ANY PORT.
- GaAs PUSH-PULL SCHEMATIC.
- MOULDED HERMETICAL ENCLOSURE FOR OUTDOOR APPLICATION (IP64).
- LINK CONNECTORS INPUT/OUTPUT - 5/8".
- RETURN PATH EXPANDED FEATURES:
 - INPUT AND OUTPUT CONTROL;
 - ADDITIONAL AMPLIFIER SETTING;
 - HIGH OUTPUT LEVEL 120 DB μ V;
 - POWER-OFF STATE.



SD1200 AMPLIFIER MODEL LINE

		RETURN PATH built-in active + changeable module	—
Mains feeding	1200-xx *)	1201-xx	1201-LC
Remote feeding	1210-xx	1211-xx	1211-LC
Combination feeding	1220-xx	1221-xx	1221-LC
Version	0	1	LC

NOTE.

*) xx – upper limit return path operating range, MHz

SPECIFICATION

FORWARD PATH	0	1	LC
Version	0	1	LC
Operating frequency range, MHz	48...87-862		48-862
Gain, dB	32 \pm 1	37 \pm 1	38 \pm 1
Flatness, dB	\pm 0,5		\pm 0,75
Noise figure, dB, or less	7		6
Max output level, dB μ V (800 MHz) at IMA III (B) –60 dB	124		126
at IMA II (B) –60 dB	115		114
Group signal output level, dB μ V at distortion			
CTB –60 dB	108		110
CSO –60 dB	110		109
Number of inputs/outputs	1 / 2 (changeable module SDM)		
Input variable attenuator, dB	0-20		
Input fixed equalizer	changeable modules SEF, SEC, SAF, SCC		
Interstage fixed equalizer	changeable modules SEF, SEC, SAF, SCC		
Return losses input/output, dB, not less	18 (40 MHz) – 1,5 dB/ octave		
Test point signal attenuation, dB	25 \pm 1,0		

FEEDING			
Mains	~187-250 / 50 Hz		
Mains power consumption, W	9	10	11
Remote	-20...65 / =30...90		
Max current transit, A	6	6	6
Remote current consumption, mA, or less			
-24 V	400	420	450
-42 V	220	240	250
-65 V	150	160	170
HAM modulation, dB	70 (at 6 A)		
Combination	mains feeding is base, remote feeding is automatic switched		
RETURN PATH			
Operating frequency range, MHz	5-30...65		
Gain, dB	10		
Flatness, dB	±0,5		
Input/output variable attenuator, dB	0...10		
Output variable equalizer	0...9		
Noise figure, dB	6		
Max output level, dBμV (65 MHz) at IMA III (B) -60 dB	120		
at IMA II (B) -60 dB	119		
Return losses, dB, not less	18		
MECHANICAL SPECIFICATION			
Link connector	5/8"		
Enclosure	IP64		
Dimension, mm	190x140x100		
Weight, kg	1,5		
Operating frequency range, °C	-20...+50		

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SD1200 SERIES INSERTABLE MODULES

Power splitter modules

- SDM-00 through 0 dB
- SDM-04 splitter 4/4 dB
- SDM-08 tap 2/8 dB
- SDM-12 tap 2/12 dB
- SDM-16 tap 1/16 dB
- SDM-20 tap 1/20 dB

Fixed equalizer on 2 positions

- SEF862-3/6...24/27 frequency range 48...862 MHz, setting step 3 dB
- SEF606-3/6...24/27 frequency range 48...606 MHz, setting step 3 dB
- SEF450-3/6...24/27 frequency range 48...450 MHz, setting step 3 dB
- SEF350-3/6...24/27 frequency range 48...350 MHz, setting step 3 dB
- SEF300-3/6...24/27 frequency range 48...300 MHz, setting step 3 dB
- SEC862-2/4...8/10 frequency range 48...862 MHz, setting step 2 dB (cable equivalent)

Attenuator

SD1200 AMPLIFIER GENERALIZED STRUCTURE SCHEMATIC



