

WIDEBAND AMPLIFIERS SD1500



- INTENDED FOR OPERATING IN WIDEBAND TELECOMMUNICATION AND TELEVISION CABLE NETWORKS UP TO 862 MHz.
- CONNECTOR TYPE «5/8».
- ALL MODELS HAVE BUILT-IN ATTENUATOR, EQUALIZER, INTERSTAGE CORRECTOR AND TEST PORTS. IT IS POSSIBLE OPERATING WITH ANY FREQUENCY RANGE OF FORWARD AND RETURN PATHS.
- IT IS POSSIBLE OPERATING WITH REMOTE, LOCAL AND COMBINATION FEEDING THAT ENSURES FLXIBLE MANAGING OF THE NETWORK FEEDING.
- OUTPUT CASCADES IS DESIGNED IN GAAS PUSH-PULL SCHEMATIC.
- CHANGEABLE INSERTIONS:
 - RETURN PATH;
 - OUTPUT SPLITTER.
- HERMETICAL CASE FOR OUTDOOR APPLICATION.

5

SD1500 AMPLIFIER MODEL LINE

Mains feeding	SD1500
Remote feeding	SD1510
Combination feeding	SD1520

SPECIFICATION

forward path	
Operating frequency range, MHz	48...862
Gain, dB	36±1
Flatness, dB	±0,75
Noise figure, dB, or less	9
Max output level, dBμV, not less at IMA III (B) -60 dB at IMA II (B) -60 dB	124 115
Gain control	variable attenuator 20 dB
Slope control	variable corrector 18 dB
Interstage slope control	built-in variable corrector 10 dB
Test port signal attenuation, dB	30
Number of inputs/outputs	1 / 2 (changeable modules SDM)
Return losses input/output, dB, not less	18 (40 MHz) – 1,5 / octave
Operating voltage, V remote mains	~20...65 / ~30...90 ~187-250
Isolation, dB, not less	70
Mains operating voltage power consumption, W, or less	15
Combination supply source switching	automatic
Max current transit, A input/output power supply input	6 8

VERSION 05/2006 ■ WWW.PLANAR.CHEL.RU

SPECIFICATION

Remote current consumption, mA, not less	without module SKR	with module SKR
24 V	560	620
42 V	290	330
65 V	200	230
RETURN PATH		
Operating frequency range, MHz	5...65	
Gain, dB	20/-3	
Flatness, dB	±0,75	
Max output level at IMA III (B) -60 dB, dBμV	118	
Noise figure, dB	6	
Level control range (input/output), dB	0...10	
Input equalizer control range, dB	0...10	
Return losses, dB	18	
MECHANICAL SPECIFICATION		
Connector type	5/8"	
input/output	F	
test ports		
Enclosure	IP64	
Dimension, mm	230x120x110	
Weight, kg	3	
Operating temperature range, °C	-20...+50	

SERIES SD1500 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 equalizers 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
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

SAF	attenuator on 4 positions 3/6/9/12 dB
-----	---------------------------------------

Return path modules

SKR-xx	Active return path module
SSR-xx	Passive return path insertion
SLC	Module without return path

