

WIDEBAND AMPLIFIERS SD2000

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



SD2000 AMPLIFIER MODEL LINE

Mains feeding	SD2000
Remote feeding	SD2010
Combination feeding	SD2020

SPECIFICATION

FORWARD PATH	
Frequency range, MHz	48...862
Gain, dB	
Flatness, dB	
Noise figure, dB, or less	7
Max output level, dB μ V, not less at IMA III (B) -60 dB at IMA II (B) -60 dB	128 119
Input fixed equalizer	changeable module SEF, SEC, SAF, SCC
Interstage fixed equalizer	changeable module SEF, SEC, SAF, SCC
Test port signal attenuation, dB	20
Number of inputs/outputs	1 / 2 (changeable module 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 feeding power consumption, W, or less	15
Combination supply source switching	automatic
Max current transit, A	
input/output	6
power supply input	3

RETURN PATH	MODULES SSR / SKR
Frequency range, MHz	5...65
Gain, dB	20/-3
Flatness, dB	±0,75
Max output level at IMA III (B) -60 dB, dB μ V	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 input/output test ports	5/8" F
Enclosure	IP64
Dimension, mm	230x120x110
Weight, kg	3
Operating temperature range, °C	-20...+50

SERIES SD2000 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
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
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Return path modules

SKR-xx	Active return path module
SSR-xx	Passive return path insertion
SLC	Without return channel module

AGC module

SAC-01	AGC module ±4 dB
SAC-02	AGC and slope module ± 4dB

SD2000 AMPLIFIER GENERALIZED STRUCTURE SCHEMATIC

