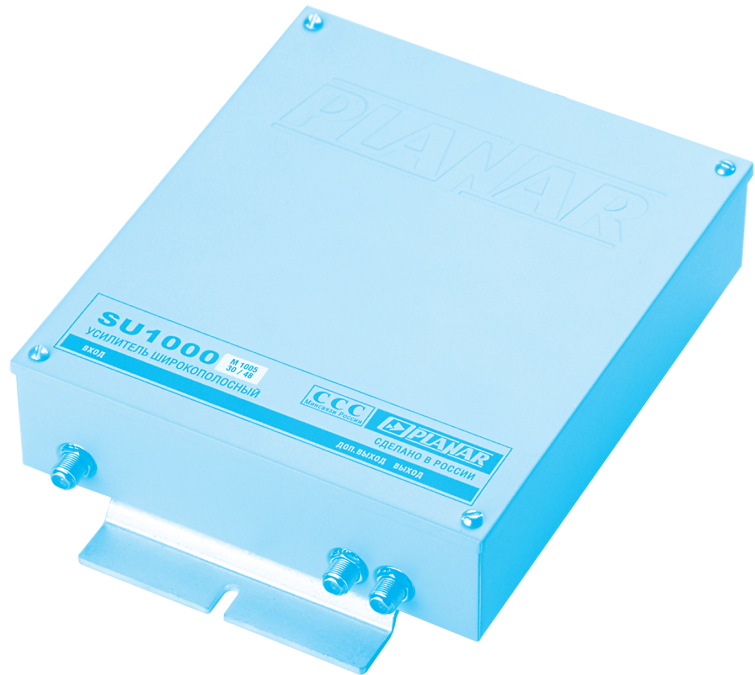


WIDEBAND AMPLIFIERS SERIES SU1000 - «ALL IN ONE»

- ALL MODELS HAVE BUILT-IN ATTENUATOR, EQUALIZER AND TEST PORT.
- IT IS POSSIBLE OPERATING WITH ANY FREQUENCY RANGE OF FORWARD AND RETURN PATHS.
- SETTING UNDER REQUEST REMOTE, LOCAL OR COMBINATION POWER SUPPLY THAT ENSURES FLEXIBLE MANAGING OF NETWORK FEEDING.
- OUTPUT CASCADES ARE DESIGNED IN PUSH-PULL SCHEMATIC TO REDUCE SECOND ORDER NON-LINEAR DISTORTIONS.
- OUTPUT SPLITTER CHANGEABLE INSERTION.
- METALL MOULDED ENCLOSURE.
- CONNECTOR TYPE «F».



SU1000 AMPLIFIER MODEL LINE

	RETURN PATH		
	no	yes passive (optional)	yes active
Mains feeding	1000 (1050)	1001-xx *)	1005-xx
Remote feeding	1010 (1050-10)	1011-xx	1015-xx
Combination feeding	1020 (1050-20)	1021-xx	1025-xx

Note.

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

SPECIFICATION

FORWARD PATH		
Version	w/o RP	with built-in RP
Frequency range, MHz	48-862	48...87-862
Gain, dB	35±1	35±1
Flatness, dB	±0,75	±1
Input variable attenuator, dB		0-20
Input variable slope control, dB	0-18	0-15...18
Return losses, dB, not less		14
Noise figure, dB, or less	6	8
Max output level, dBμV, not less		
(200 MHz) at IMA III (B) -60 dB	122	122
at IMA II (B) -60 dB	119	124
(800 MHz) at IMA III (B) -60 dB	119	118,5
at IMA II (B) -60 dB	117	121
Test port signal attenuation, dB		30

RETURN PATH			
Frequency range, MHz	5...65		
Return losses, dB	16		
ACTIVE RETURN PASS			
Gain, dB	20±1		
Flatness, dB	±0,75		
Input/output variable attenuator, dB	0...10		
Output variable equalizer	0...10		
Noise figure, dB, or less	6		
Max output level, dBμV (30 MHz) at IMA III (B) -60 dB at IMA II (B) -60 dB	118 110		
PASSIVE RETURN CHANNEL			
Losses, dB, or less	2		
FEEDING			
Mains	-187-250 / 50 Hz		
Mains power consumption, W	10		
Remote	-20...65 / =30...90		
Max current transit, A	2		
Remote current consumption, mA, or less	Passive RP	Active RP	
-24 V	290	350	
-42 V	170	210	
-65 V	120	150	
Combination	mains feeding is base, Remote feeding is reserve switched		
GENERAL SPECIFICATION			
Connector type input/output, test ports	F-female		
Dimension, mm	270x170x80		
Weight, kg	2,2		

5

Wideband amplifier with operating frequency range up to 450 MHz.

SU1000 MODEL 1050 TECHNICAL SPECIFICATION

Frequency range, MHz	48...450		
Gain, dB	35±1		
Variable gain control, dB	0...20		
Variable slope control, dB	0...15		
Return losses, dB, not less	14		
Noise figure, dB, or less	7		
Max output level, dBμV, not less (200 MHz) at IMA III (B) -60 dB at IMA II (B) -60 dB (450 MHz) at IMA III (B) -60 dB at IMA II (B) -60 dB	123 119 121 117		

SU1000 AMPLIFIER GENERALIZED STRUCTURE SCHEMATIC

