



Multiband amplifiers

Programmable multiband amplifier

- for combining and balancing of the signals from up to 2 TV antennas
- separate FM input
- programmable 20 digital filters
- AGC in each filter
- SAW trap filters for 5G LTE protection
- powering from external power supply via DC input or RF output (power inserter required*)
- switchable DC feeding for preamplifier with protection of DC overload
- status LED indication
- programming from Android smartphone** or Windows PC
- die-cast housing
- connectors:
 - RF output & DC IN, output test point - type F
 - DC IN - 3.5/1.3 mm DC jack



Technical specifications

T Y P E		PA321TP
Ordering number		00503
RF inputs		
Frequency range	FM	87-108 MHz
	2xVHFIII/UHF	174-240 MHz / 470-694 MHz
RF input level	FM	69-89 dB μ V
	VHF/UHF	50-100 dB μ V
Gain	FM	29 dB
	VHF/UHF	63 dB max.
Noise figure		7 dB
AGC	VHF/UHF	46 dB in each filter
Slope adjustment	FM	-
	VHFIII/UHF pr.	5 dB
Selectivity	VHF/UHF \pm 1 MHz	> 30 dB
	FM \pm 20 MHz	> 20 dB
LTE		5G
Number of UHF channels	pr.	20 max.
Number of filters		20 max.
RF output		
Output level	FM	106 dB μ V max.
	VHF/UHF	113 dB μ V max. (6 MUX)
RF output adjustment	FM	0 \div -20 dB
pr.	VHF/UHF common	0 \div -20 dB
	VHF/UHF each channel	\pm 3 dB
RF test		30 dB
Powering***		
DC feeding for external	VHFIII/UHF1 pr.	12 V 100 mA per input, OFF/ON
Supply voltage	via 3.5/1.3 mm DC jack	12 \pm 1 V
	via RF output	12 \pm 1 V
Current consumption		12 V 450 mA****
General		
Return loss		> 10 dB
Operating temperature		-20 $^{\circ}$ C \div +50 $^{\circ}$ C
Dimensions/Weight (packed)		100x147x55 mm/0.54 kg

* power inserter is sold separately

** programming from Android device via OTG cable, this cable is sold separately

*** PA321TP is packed with external power supply SYS1381N-1212-W2E

**** without external DC load, with maximal external DC load - 0.55 A max.

pr. software control