

**Fast Tunable Amplifier
ASV 2000**

P/N 560-00911-000



The ASV2000 is an “UHF Integrated Cositing Unit” designed with the aim to improve the technical characteristics of UHF systems. It is used to improve the filtering capabilities of such systems, both in transmission and in reception, and to increase the transmitted RF power. A high selectivity, agile filter is designed to allow simultaneous operation of a large number of transceivers operating in a co-located environment. Its main features are listed below:

- Frequency range: NATO UHF Band 225 ÷ 400 MHz;
- Operative modes: AM-25kHz NarrowBand, Have-Quick (I and II) and Saturn;
- Integration with SRT619/NV equipment;
- Provides a bypass switch that operates automatically in case of device failure;
- Remote Control by TCP/IP connection with SNMP v.3.0 protocol;
- Device Status monitoring:
 - VSWR
 - Temperature
 - Power
- Remote measurements:
 - Output Power
 - VSWR
 - Temperature
- Alarm management.

All data may change without notice. Measurement tolerances to be added.

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TECHNICAL SPECIFICATIONS		ENVIRONMENTAL SPECIFICATIONS	
Output Power	: 100W CW (400 W PEP)	Operating Temperature Range	: -10 ÷ +55 °C
Output power linearity against frequency	: Between +1 dB and -1 dB	Storage Temperature Range	: -40 ÷ +75 °C
Filter Selectivity	: -35 dB @ ± 3.0% -55 dB @ ± 5.0%	Humidity	: 5 to 90% (not condensing)
Amplification	: Reception gain: 10 dB Noise figure: < 9 dB Input IP3: 52 dBm @ 5 & 10% offset	Vibration	: According to standard ETSI EN 300 019 parts 1-2, class 2.2T
RX Attenuation	: < 2 dBm	Shock	: According to standard ETSI EN 300 019 parts 1-2, class 2.2T
Desensibilization	: Perturbant F0 + 10 MHz : SINAD 6 dB Perturbant > 20dBm	Safety	: According to standard EN60950
Crossmodulation	: +17 dBm without sensitivity degradation	EMC	: According to standard EN 300489-22
Intermodulation	: +10 dBm with amplifier inserted		
Filter Tuning time	: < 35 us (Saturn compliant)		
Antenna System	: RF Input / Output : Type N female connector on rear panel, 50 Ohm nominal impedance		
VSWR	: Input: Impedance with ratio < 1.5:1 Working with VSWR on output < 3:1 Protection against excessive VSWR >3.1 with Bypass switch operation		
Protections	: Excessive Temperature – Excessive Current – Input/Output power Control		
Bypass switch	: Automatic in case of fail or in manual mode		
Pass Through Band distortion	: Total acceptable distortion of device driver +PA is <= 5% if device driver distortion is lower than 3%		
Heat Reduction	: Through internal backside fan		
Dimensions	: L x W x H 482 x 482,6 x 133 mm		

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