

RPA-500

Airborne direction finder

Direction finder is intended for determination of the direction to radio emission source in the frequency range 100-512MHz. Direction finder allows scanning the specified frequency range, including emergency frequencies 121.5, 156.8 and 243.0, as well as to receive and decode the signals from COSPAS-SARSAT search and rescue system.

Direction finder provides:

- determination of the direction to the emission source in the frequency range 100 to 512MHz;
- detection and bearing of emergency signals on the frequencies 121.5 MHz, 156.8 MHz and 243.0 MHz and on COSPAS-SARSAT frequencies;
- receiving and decoding of COSPAS-SARSAT signals;
- determination of the direction to the emission source on the all modulation formats;
- the mode of the listening to the signals sources.

Direction finder components:

- antenna (B15-RPA);
- control and indication unit (B8-RPA unit)



Specifications

Parameter	Value
RMS bearing error, degrees:	
at the field strength 13 $\mu\text{V/m}$ in the frequency range:	
100 MHz – 114 MHz, max	10°
at the field strength 10 $\mu\text{V/m}$ in the frequency range:	
114 MHz – 512 MHz, max	10°
at the field strength 30 $\mu\text{V/min}$ the frequency range:	
100 MHz – 512 MHz, max	3°
Power consumption, W (at 27V), max	30
Power supply, DC, V	27
Operating temperature, °C	
antenna	-60 +55
control and indication unit	-60 +55
Weight, kg	
antenna	4,5
control and indication unit	не более 0,5
Dimensions, mm	
antenna (under fuselage)	156x350
control and indication unit	86.2x82.8x122



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