



3D RADARS

PODBEREZOVIK-ET1/ET2

SOLID-STATE
FOR LONG RANGE DETECTION



The shipborne 3D radars «Podberezovik-ET1» and «Podberezovik-ET2» are intended for detection of air and surface targets and providing fire means with target designation data. They are installed on warships of medium and large displacement.

«Podberezovik-ET1» and «Podberezovik-ET2» have been developed and are produced by FSUE «SMP «Salyut».

«Podberezovik-ET1/ET2» radars solve the following tasks:

- Control of air and surface situation at a range up to 500 km;
- Detection of air targets, small size and low flying included;
- Detection of surface targets;
- Providing IFF for detected targets;
- Giving out of initial radar information for fire arms, ECM means and information processing system;
- Tracking of the detected targets and giving out of the secondary radar information for the control systems together with information processing devices.

High efficiency and anti-interference of the radars are provided by:

- Adaptive distribution of energy in space;
- Electronic frequency re-tuning in a wide band;
- High space resolution and low level of antenna pattern sidelobes;
- Complex signals with high resolution ability;
- Nonlinear methods of processing signals;
- Logical processing of signals after detection;
- Double adaptive moving target selection.

The radars have a built-in system of automatic capacity for work check and diagnostics capable of finding out breakdowns and faultinesses with an accuracy to a changeable element.

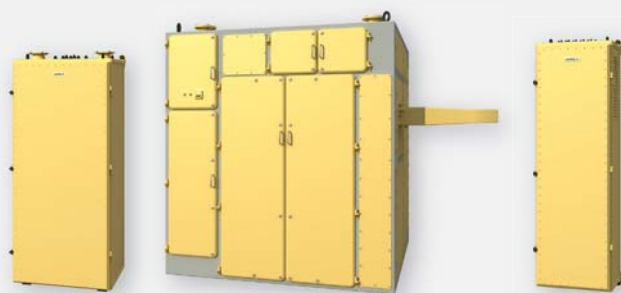
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PODBEREZOVIK-ET1/ET2



SPECIFICATIONS

	ET1	ET2
Frequency band	C	C
Number of measured coordinates	3	3

COVERAGE

range, km	500	500
azimuth, deg	360	360
altitude, km	40	40
elevation, deg	30	30

DETECTION RANGE, KM

fighter	300	240
missile	55	45
ship	Range of direct visibility	
minimum range, km	5	5

Antenna rotation speed, rpm	6,12	6,12
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MEASURING ACCURACY OF COORDINATES

range, m	150	150
azimuth, mil	7	7
elevation, mil	9	18

WEIGHT, T

antenna post	4,7	2,9
devices	3,2	3,2

Power consumption, kW	45	45
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Number of devices	7	7
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