

# Prima-MV

## Airborne intergated VHF radio set for voice radio communications

Prima-MV radio set is intended for providing voice radio communications on the fixed frequencies of VHF range between aircraft and ground control unit.

There are two variants of Prima-MV - with control panel and without control panel.



### Prima-MV provides:

- two-way simplex voice radio communications on the fixed frequencies;
- monitoring of the emergency frequencies (121.5 MHz and 156.8 MHz);
- preliminary programming of the radio communications channels
- SELCAL;
- Control interfaces - ARINC 429, RS422, CAN;
- 40 programmable channels.

### Key features:

- enhanced frequency range;
- output power 25-30 W;
- low power consumption;
- Small dimensions and weight.

The following emission classes in VHF range are used in Prima-MV radio set:

Frequency range, Mhz	Frequency spacing, KHz	Emission classe	Note
118.000 - 173.975	25	16K8F3EJN	FM single-channel telephony (F3E)
118.000 - 136.975	8.33; 25	5K00A3EJN	AM single-channel telephony (A3E)
137.000 - 173.975	25	6K80A3EJN	AM single-channel telephony (A3E)
156.000 - 173.975	25	16K8G3EJN	FM single-channel telephony (G3E)

## Specifications:

Parameter	Value
Modulating frequency range, Hz	
A3E, F3E, G3E/ A3E ( 118,000-136,975 MHz range)	300-3400/ 300—2500
Frequency relative error	$1 \cdot 10^{-6}$
ransmitted power in A3E/F3E, G3E emission classes, W:	
high power mode	25 W $\pm$ 1db/ 30 B $\pm$ 1 db
low power mode	5 W $\pm$ 1.5 db
Receiver sensitivity, $\mu$ V	
A3E, F3E, G3E	1,5
Guard receiver frequency ,MHz	121,5, 156.8
Quantity of the preprogrammed radio channels	40
Operation recurrence (Tx/Rx),min	1/3
Power supply, V	27
Power consumption (Tx/Rx), max, W	150/30
Operating temperature, °C	
High/ low:	
transceiver	+70/-55
control panel	+55/ -20
Dimensions, mm	
transceiver on the mount / control panel	67X168X235/ 146.1x66.8x121.5
Weight, kg, max	
transceiver/ control panel	2.3/0.6
Mean time between failures, hours	5000

