



## Preselector

# R-450C-PR

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**Control via RS-422**

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**Cooperation with radio relays SDR R-450C**

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**Resistance to blocker-type interferences**

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R-450C-PR preselector is intended to work with R-450C wideband radio. It enables simultaneous and independent work of many wideband radio located very closely to one another (e.g. in one vehicle) at the interchannel distance of not less than 100 MHz for locations on one vehicle. During reception the R-450C-PR preselector improves the selectivity of a reception truck, and during transmission it additionally decreases the level of noise and interferences generated by the transmission truck. The use of preselector also eliminates the influence of other high-power radio systems working in bands KF, UKF or VHF on quality of reception of the R-450C wideband radios.

R-450C-PR preselector fulfils the function of an independent band-pass filter for each antenna input separately. Controlling takes place on an electrical interface type RS232C by means of two-bite commands. Each channel may be controlled jointly or independently.

**R-450C-PR preselector qualifies for N.7-O-II-(A and B) group according to NO-06-A101 and NO-06-A103 (MIL-STD-810G compliant) (multi-use and continuous work equipment), within working temperatures from minus 30°C to plus 60°C and the deviation within storage temperatures from minus 40°C to plus 65°C.**

R-450C-PR is a device **functioning** (working) **while moving** and intended to be used in one position.



## TECHNICAL PARAMETERS

### BASIC FUNCTIONALITIES

Resistance to blocker-type interferences

Cooperation R-450C-01, R-450C-02, R-450C-04

Controlling via RS-422

### PARAMETERS

Frequency ranges	225-400 MHz
Minimum acceptable channel spacing	distance when installing the radio relay in the same location 100 MHz
Adjustment frequency step	1 MHz
Attenuation in pass band	<2.5 dB
Power handling (TX trunk)	<50 W
Number of high-frequency trunks	2 (ANT1, ANT2)

### CONNECTORS

Type of controlling interface	<b>RS-422 (Line TX(a,b), RX(a,b), GND)</b> 8D0C13W98SN Souriau connector
Power supply	<b>27 V</b> 8D0C13W04PN Souriau connector
Antenna	<b>ANT.1 and ANT.2</b> N connector

### POWER SUPPLY

Power supply	+27 V (from 19 V to 35 V)
Power consumption	<100 W

### OTHER TECHNICAL PARAMETERS

Dimensions (HxWxD)	130x300x341 mm
Weight	<10 kg
Mechanical and climatic classification	Group N.7-O-II(A and B), acc. to NO-06-A101+108 (MIL-STD- 810G compliant) (multi-use and continuous use equipment)
Electromagnetic compatibility	NO-06-A200 (MIL-STD-461F compliant) (KRE-02, KCE-02, KCS-01, KCS-06, KCS-07, KCS-08, KRS-02)
Operating temperature	From -30°C to +60°C
Storage temperature	From -40°C to +65°C
Humidity	95-98% at to +40°C

