

## ANTENNA COUPLERS

## RADIO COMMUNICATION AND DATA EXCHANGE SYSTEMS

### RKS-8000 SA-A RKS-8000 SA-D



- depending on the type of the antenna coupler co-operation with 150W and 400W power amplifiers
- used to automatic and effective impedance matching of the power amplifier outputs to different kinds of antennas within 1,5-30MHz frequency

The RKS-8000SA-A and RKS-8000SA-D antenna couplers are designed for automatic and effective impedance matching of the power amplifier outputs to different kinds of antennas within 1,5-30MHz frequency. The RKS-8000SA-A antenna coupler is used for a 150W power amplifier and the RKS-8000SA-D antenna coupler is used for a 150W and 400W power amplifiers.

The standard tuning time to a new frequency takes about 1,5 sec. Tuning based on memory doesn't take more than 60 ms and it

allows the usage of the antenna couplers in systems where a quick frequency switching is required, e.g. ALE2G, ALE 3G.

The RKS-8000SA-A and RKS-8000SA-D antenna couplers are designed to work with the HF RKS-8000B (150W) and the RKP-8100 (150W) transceiver sets. Furthermore the RKS-8000SA-D antenna coupler is capable of operating with HF RKS-8000D (400W) transceiver. Additionally built-in and independent impedance measurement system allows the antenna coupler to work out of the sets.





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TECHNOLOGIES UNDER CONTROL



## ANTENNA COUPLERS

### RKS-8000 SA-A RKS-8000 SA-D

| GENERAL                  | RKS-8000 SA-A  | RKS-8000 SA-D  |
|--------------------------|--|--|
| Power:                   | 150W PEP and Average   | 500W PEP and 250W and Average  |
| Tuning Accuracy:         | Automatically tuned WFS <2<br>(typical WFS<1,5)                      | automatically tuned WFS <2<br>(typical WFS<1,5)                      |
| Tuning Time:             | <60ms tuning from memory<br><1,5s typical (5s max) initial tune time | <60ms tuning from memory<br><1,5s typical (5s max) initial tune time |
| Channel Memory:          | 2850   | 2850   |
| Antenna Types:           | whips, dipoles etc.  | whips, dipoles etc.  |
| Power Supply:            | 24V  | 24V  |
| Cable type, max. length: | K-8000-R, 50m max  | K-8000-R, 50m max  |

| ENVIRONMENTAL SPECIFICATIONS | RKS-8000 SA-A   | RKS-8000 SA-D   |
|------------------------------|---|---|
| Operating Temperature:       | -40°C – 70°C  | -40°C – 70°C  |
| Environmental Requirements:  | N7, N8, M1.1 Devices group<br>according to N0-07-A103 | N7, N8, M1.1 Devices group<br>according to N0-07-A103 |

| DIMENSIONS       | RKS-8000 SA-A | RKS-8000 SA-D |
|------------------|---------------|---------------|
| Weight in kg:    | 12            | 14            |
| Dimension in mm: | 292×124×396   | 345×230×521   |