



# ANTENNA MATRIX SWITCH

## CS-902

- \* Distribute and Switch 7 Antennas and 8 TX Lines
- \* Offering High Efficiency and Reliability
- \* Wide Band and Low Loss Characteristic

### DESCRIPTION AND PURPOSE

The CS-902 is an antenna matrix switch offering high efficiency with a wide frequency range in HF band providing a variety of functions enables to distribute and switch multiple antennas and transmitters quickly. It presents 7 output ports for antennas and 8 input ports for transmitters including 1 additional port for AUX transmitter line that are flexibly connectable. In case such a malfunction or failure is unexpectedly occurred in the connected antenna or transmitter, it is switchable to another antenna or transmitter by toggling control knob of each RF switch in the front panel which are manually controlled by interlocking integrated motor drive switch built-in the unit. The transmitting line spreaded out inside the unit is suitably structured in strip-line which is ideal for transferring a maximum RF energy with minimum loss and low VSWR characteristic over the entire band. The CS-902 is designed to fix on the floor using 4 anchor bolts or can also be installed in another appropriate way to meet with a surrounded condition if the floor is not concrete type. CS-902 will suitably meet with such an application at the radio operation site in where operates with multiple TXs and antennas, such as government, defense agency, air-control system, broadcast stations and other high-end applications etc. A 220~240VAC power supply is required for the CS-902. The specification details of CS-902 is as follows.



### SPECIFICATION

|                                |                                 |
|--------------------------------|---------------------------------|
| Frequency Range                | DC~32 MHz                       |
| Impedance                      | 50 ohms                         |
| Insertion VSWR                 | Less than 1.15 : 1              |
| Insertion Loss                 | Less than 0.1 dB                |
| RF Power Capability, Ave./PEP. | 10/20 kW                        |
| Crosstalk                      | Less Than -50 dB                |
| RF Connector                   | 1-5/8" EIA Male Flanges         |
| Port Quantity                  | Ant: 7, TX: 8                   |
| Operating Time                 | Max. 5-sec.                     |
| Power Requirement              | 220~240 VAC. 10 VA              |
| Size, Switch Unit              | W: 1150 mm H: 1000 mm D: 230 mm |
| Weight                         | 55 kg                           |

\* Whatever the type of antenna matrix switch in any required configuration can be designed and is manufacturable, please contact us.