



DATASHEET

HF RX Matrix

P/N
560-00559-000



Matrix interconnection unit for Antennas-Receivers in 1.5 ÷ 30 MHz HF range, for both Military and Civilian use, naval and ground installation. Its main features are listed following:

- Allows the switching of one antenna to one or more receivers. The Rx matrix is modular; every module is designed for 5 inputs (antennas) and 4 outputs (receivers);
- By using an adequate number of modules the desired configuration can be achieved;
- The maximum number of inputs/outputs is 10 antennas x 32 receivers;
- The modules can be replaced during the operations with no interruption (hot swappable). The control of the matrix can be done locally or remotely via serial line RS 232/422-485;
- A BITE circuit indicates an error in closing an RF cross-point;
- Flexible configuration, local & remote BITE system;
- Outstanding RF characteristics.

TECHNICAL SPECIFICATIONS

ENVIRONMENTAL SPECIFICATIONS

Frequency range	: 10 kHz ÷ 30 MHz (opt. 1 MHz)
Impedance	: 50 Ohm
Insertion loss In/Out	: -6 dB ± 1 dB
Linearity	: 2dB
Noise figure	: 6 dB ± 1 dB
Isolation Input-Input	: > 50 dB
Isolation Output-Output	: > 50 dB
Intercept point	: ≥ 40 dBm 3rd ord ≥ 50 dBm 2nd ord
Inter-modulation Distortion	: Suppressed at 35 dB below the maximum input level of -13 dBm

Operating Temperature	: - 10° C ÷ + 50 ° C
Storage Temperature	: - 20° C ÷ + 85° C

Gain	: 0 ± 1 dB
Path Connection Loss	: ≤ 0.25 dB in the frequency range
Min number of antenna inputs	: 5
Min number of receiver outputs	: 4
VSWR	: ≤ 1,5: 1 WITH TEST POINT
RF Connectors	: BNC Type Inputs & Outputs
Max number of antenna inputs	: 10
Max number of receiver outputs	: 32
Commun. Interface-Remote Control	: RS 232/RS 422-485
Local control	: Local panel with touch screen
Power supply	: 230 Vac ± 10 % 45 ÷ 65 Hz 200 VA max
MTTR	: 20'
Dimension	: 19" Standard Rack 3 or 6 Unit – depth 500 mm
Weight	: < 25 kg (6 unit)