

IF 8x8 MATRIX NON-BLOCKING MAS2055



This matrix distributes 8 IF signals to 8 receivers in the frequency range 20...200 MHz without any blocking.

Design

The matrix is housed in a 19" subrack with very good RF shielding and consists of the following sub-assemblies:

- low noise amplifiers with high dynamic range
- power dividers 8-way
- solid-state switches SP8T
- processor board
- LAN interface
- manual control module
- redundant power supply units

All the necessary signal, power supply and earthing connections are provided at the rear. The mains switches are located on the front panel.

Control

The matrix is controlled via a LAN interface. Other interfaces are possible on request.

Special features

The power supply voltages and the I/O boards are monitored in a processor routine.

The selected crosspoints as well as the I/O fault messages are displayed on the manual control module.

A status string can also be requested at any time via the control interface.

The unit is constructed using a modular approach utilising 19" plug-in sub-assemblies which enable ease of installation and maintenance.

Technical data	measured a 25° C
Model number:	MAS2055
Item number:	(will be assigned after order)
Configuration:	8 inputs, 8 outputs non-blocking
RF specifications	
Impedance (Ohm):	50/75
Frequency range (MHz):	20...200
Gain (dB):	0 +/-1.0
Gain flatness (dB):	+/-1.0 max., +/-0.5 typ.
Noise figure (dB):	17.0 max.
VSWR:	1.3 : 1 max.
Intercept point (dBm):	
3rd order	+20 min.
2nd order	+35 min.
Isolation (dB):	
Out/out	40 min.
On/off	70 min.
Crosstalk	55 min.
P1 dBc (dBm):	0 max.
Switching elements:	solid-state switches
Inputs:	non-switched inputs internal terminated
Further specifications	
Control:	LAN
Manual control:	LCD (4x20) & pushbuttons (3x6)
RF connectors:	BNC female
Power supply (Vac, Hz):	115/230, 47...63, redundant
Connector	3-pin, with mains filter & fuses with integrated lamp
Mains switches:	
Temperature range (°C):	
Operating	0...40
EMC:	in accordance to Eur. standard EN 61000-6-1 & EN 61000-6-3
Dimensions:	
Height (RU)	3
Width (inch)	19
Depth (mm)	about 420 (without connectors & handles)
Front panel:	
Front view	painted (RAL7032)

Designed & produced by NOVOTORNIK GmbH

