

Relay Switching Unit KRE-0511-ESUL

MTS-No.: 30951

Application

The Relay Switching Unit series KRE-4000 can be used for several applications, f.e.:

- Switching Unit for RF-generators, amplifiers and antennas at EMC test laboratories
- RF matrix
- Filter, diplexer attenuator etc. selection unit
- Any automated routing of measurement equipment at test benches

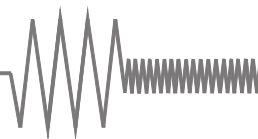
Description

The Relay Switching Unit series KRE-4000 is for the switching of almost every kind of signals. Due to the modular design, the electrical characteristics of the switches can be adapted to versatile demands. In combination with attenuators, splitters and other modules the usability can be extended.



Characteristics

- ▶ Configuration:
6x SP6T relay (R591.303.610 Radiall)
- ▶ Relays are patched as a matrix 6/24 plus two direct ports @ E
- ▶ Switching cycles of every relay position can be requested
- ▶ Integrated power supply 100 V - 240 V AC
- ▶ Seven-segment displays
- ▶ Remote control by USB and LAN (other interfaces, colour display with touchpanel or web control on request)
- ▶ 19" rack mount case with 1 HU
- ▶ Windows control programs can be offered
- ▶ High quality materials and components for extended durability
- ▶ On request user blocking of separate components (with name / name and keyword available)
- ▶ Relay Switching Units can be designed according to customer's individual requirements



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Technical data:

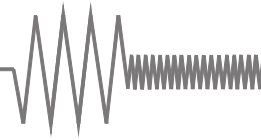
1 RF-specifications relays:

1.1 Relay type (relays A - F)	SP6T relay (R591.303.610 Radiall)	1.11 Relays as matrix like shown @ page 4	6 inputs, 24 outputs, 2 direct ports
1.2 Impedance	50 Ω	1.12 Impedance	50 Ω
1.3 RF-power max. (throughput power)	240 W CW @ 3.0 GHz (*) 150 W CW @ 6.0 GHz (*)	1.13 RF-power max. (throughput power)	240 W CW @ 3.0 GHz (*) 150 W CW @ 6.0 GHz (*)
1.4 Frequency range	DC – 6.0 GHz	1.14 Frequency range	DC – 6.0 GHz
1.5 RF-connections	SMA female	1.15 RF-connections	SMA female
1.6 Switching time max.	15 ms	1.16 Switching time max.	15 ms
1.7 Operating life min.	10 000 000 cycles	1.17 Operating life min.	10 000 000 cycles
1.8 VSWR max.	DC – 3.0 GHz 1.20 : 1 DC – 6.0 GHz 1.30 : 1	1.18 VSWR max.	DC – 3.0 GHz 1.40 : 1 DC – 6.0 GHz 1.50 : 1
1.9 Isolation min.	DC – 3.0 GHz 80 dB DC – 6.0 GHz 70 dB	1.19 Isolation min.	DC – 3.0 GHz 80 dB DC – 6.0 GHz 70 dB
1.10 Insertion loss max.	DC – 3.0 GHz 0.20 dB DC – 6.0 GHz 0.30 dB	1.20 Insertion loss max. or typ. @ matrix 6/24	DC – 3.0 GHz 0.80 dB max. DC – 6.0 GHz 1.40 dB max.
		1.21 Insertion loss max. @ two direct ports @ E	DC – 3.0 GHz 0.40 dB DC – 6.0 GHz 0.80 dB

2 Connections:

Front side	Power switch with integrated control lamp Seven-segment displays
Rear side	RF-connections Control card with control interfaces Appliance plug with the integrated fuses F1 and F2 Ground connector

(*) Non-switching. The maximum RF-power is shortened depending on present standing waves. Please consult derating factors of the relay manufacturer and consult the specification of used RF connectors.



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Technical data:

3 General specifications:

3.1 Power supply	100 V - 240 V 50 Hz / 60 Hz
3.2 Internal voltage	+5 V DC, +24 V DC
3.3 Control displays	Control lamp in the power switch Seven-segment displays
3.4 Control interfaces	USB LAN
3.5 Power consumption primarily	150 mA max. @ 230 V (no relay switched) 200 mA max. @ 230 V (all relays switched)
3.6 Voltage supply	Standard rubber connector
3.7 Operating temperature	0 °C - +50 °C
3.8 Reference temperature for specifications	+25 °C
3.9 Dimensions	19"-unit x 1 HU x 353 mm (dimensions without handles and connections)
3.10 Colour	Front side colourless anodized Rear side colourless anodized
3.11 Weight	4.8 kg

4 Delivered parts:

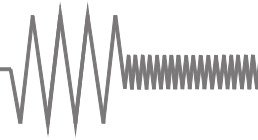
KRE-0511-ESUL
Power cable
CD with operating manual

5 Comments:

Warranty 12 months
RoHS-compliant Yes

6 Recommended accessories:

RF-cables
Terminations
Attenuators



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Views:

