

Relay Switching Unit KRM8-5411-T-S2-TERM

MTS-No.: 30222

Application

The Relay Switching Module series KRM is a small version of a Relay Switching Unit in a cassette enclosure.

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

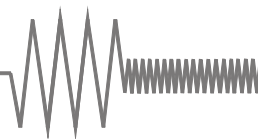
Description

The Relay Switching Module series KRM and the Relay Switching Unit series KRE-4000 are 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:
 - 1x SP8T relay 1-8 terminated (R574.F02.810 Radiall)
- ▶ External power supply 100 V - 240 V AC
- ▶ Remote control by USB and fiber-optic (2x ST connections, duplex other interfaces or web control on request)
- ▶ Remote control by LAN (10/100 Mbit/s) by included external fiber-optic converter inclusive fiber-optic cables
- ▶ Cassette enclosure
- ▶ 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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Configuration:

1x SP8T relay 1-8 terminated (R574.F02.810 Radiall), LAN (10/100 Mbit/s) by external fiber-optic converter inclusive fiber-optic cables and connectors as well as external power supply

Technical data:

1 RF-specifications relays:

1.1 Relay type (relay 1)	SP8T relay (R574.F02.810 Radiall)
1.2 Impedance	50 Ω
1.3 RF-power max. (throughput power)	240 W CW @ 3.0 GHz (*) 150 W CW @ 8.0 GHz (*) 100 W CW @ 18.0 GHz (*) 40 W CW @ 26.5 GHz (*)
1.4 RF-power max. (for terminations)	1 W CW per termination (*) 3 W CW sum for all terminations (*)
1.5 Frequency range	DC – 26.5 GHz
1.6 RF-connections	SMA female
1.7 Switching time max.	15 ms
1.8 Operating life min.	2 000 000 cycles
1.9 VSWR max.	DC – 3.0 GHz 1.20 : 1 DC – 8.0 GHz 1.30 : 1 DC – 18.0 GHz 1.60 : 1 DC – 26.5 GHz 2.00 : 1
1.10 Isolation min.	DC – 3.0 GHz 80 dB DC – 8.0 GHz 70 dB DC – 18.0 GHz 60 dB DC – 26.5 GHz 55 dB
1.11 Insertion loss max.	DC – 3.0 GHz 0.20 dB DC – 8.0 GHz 0.30 dB DC – 18.0 GHz 0.60 dB DC – 26.5 GHz 1.10 dB

2 Connections:

2.1 Front side	RF-connections Control-LED "ON" for supply voltage Control-LEDs for relay state
2.2 Rear side	Control interfaces Power supply connectors (2x banana jack 4 mm)

3 General specifications:

3.1 Power supply	+12 V DC
3.2 Internal voltage	+5 V DC, +12 V DC
3.3 Control displays	Control-LED "ON" for supply voltage Control-LEDs for relay state
3.4 Control interfaces	USB Fiber-optic (2x ST connector, duplex)
3.5 Power consumption primarily	550 mA max. @ 230 V (relay not switched) 800 mA max. @ 230 V (relay switched)
3.6 Voltage supply	Low voltage socket
3.7 Operating temperature	0 °C - +50 °C
3.8 Reference temperature for specifications	+25 °C
3.9 Dimensions	Cassette chassis 105 mm x 85 mm x 250 mm (dimensions without connections)
3.10 Colour	Front side colourless anodized Rear side colourless anodized
3.11 Weight	1.7 kg

4 Delivered parts:

KRM8-5411-T-S2-TERM
External power supply
External LAN to fiber-optic converter inclusive fiber-optic cables and connectors
CD with operating manual

5 Comments:

Warranty 12 months
RoHS-compliant Yes

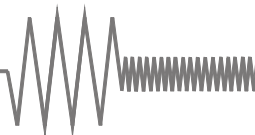
6 Recommended accessories:

External power supply
RF-cables

(*) 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 subject to change

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