



SW 6012, SW 6012-MAN RF-SWITCH SOLUTION FOR ITS 6006 MANUAL RF-SWITCH UP TO 12.4 GHz



- Two relays SPDT
- Low insertion loss
- High power handling
- Two models available



SW 6012 control connector view

The **SW 6012** adds two SPDT switches to the built-in switching network of the ITS 6006. It is fully powered and controlled by the ITS 6006. Interlock connections are provided for switching the amplifier gain on/off. Additionally the SW 6012 is supplied with a second user port socket for various applications. The SW 6012 can be controlled by the NSG 4070B (NSG 4070 and NSG 4070A require SW 4070.).

The **SW 6012-MAN** is a system independent RF switch with manual operation and its own power supply unit. Interlock connections are provided for switching the amplifier gain on/off.

Technical specifications

Power supply:	12 V DC, 300 mA
Connector type:	Sub-D, 15 pins (for ITS 6006 user port)
Response time:	typical <20 ms
Relay type:	2x SPDT, N sockets 50 Ω
Power handling:	Cold switching only
Power	
up to 100 MHz:	1500 W
up to 400 MHz:	800 W
up to 1 GHz:	500 W
up to 3 GHz:	300 W
up to 6 GHz:	200 W
up to 12.4 GHz:	150 W
VSWR	
0 to 1 GHz:	typ. <1.15
1 to 2 GHz:	typ. <1.2
2 to 4 GHz:	typ. <1.25
4 to 8 GHz:	typ. <1.45
8 to 12.4 GHz:	typ. <1.5
Insertion loss	
0 to 1 GHz:	typ. <0.15 dB
1 to 2 GHz:	typ. <0.2 dB
2 to 4 GHz:	typ. <0.25 dB
4 to 8 GHz:	typ. <0.40 dB
8 to 12.4 GHz:	typ. <0.50 dB
Isolation:	typ. ≥60 dB
Interlock	
Connector type:	BNC female
Indicator:	2x LED

Mechanical specifications

Size (W x H x D in mm):	125 x 82 x 155
Weight:	approx. 1 kg
Size of the 19" rack mounting plate:	132.5 mm x 482.6 mm

SW 6012, SW 6012-MAN

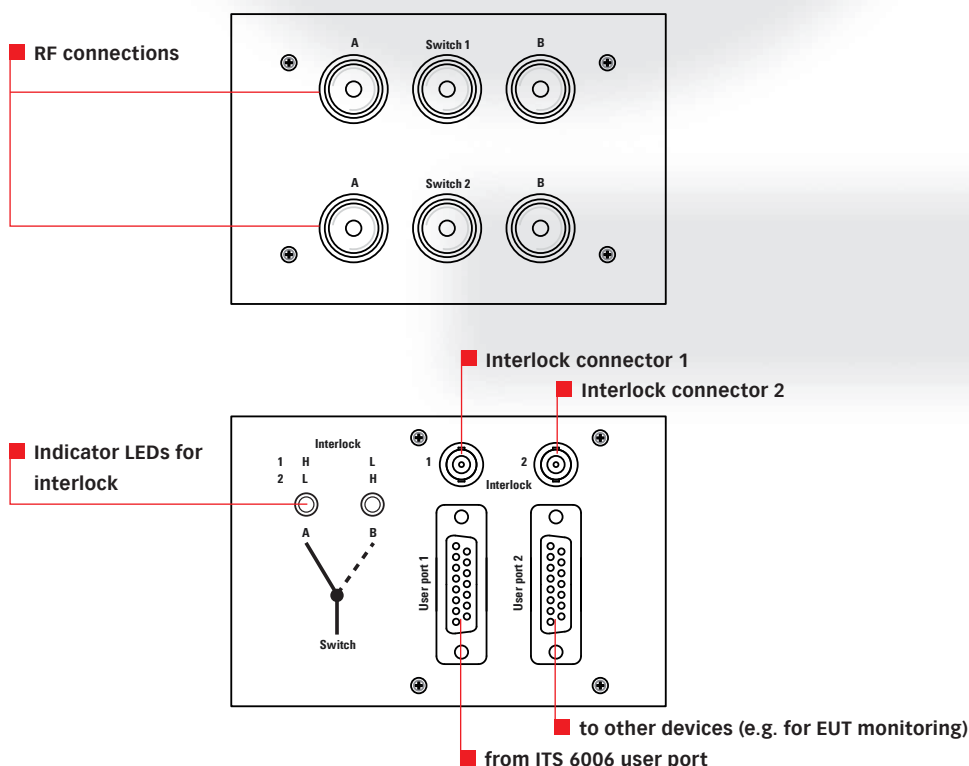
RF-SWITCH SOLUTION FOR ITS 6006

MANUAL RF-SWITCH UP TO 12.4 GHz

Logic

Input	L	H
Switch 1	A B	A B
Switch 2	A B	A B
Interlock 1	float	gnd
Interlock 2	gnd	float
LED 1	on	off
LED 2	off	on

Connections and functions



Delivery items	SW 6012	SW 6012-MAN
SW 6012 unit	■	■
Cable Sub-D, 15 pins, male / male, 2 m	■	-
19" rack mounting plate	■	■
Power supply PSU 6002	-	■
Manual switch adapter MSA 6001	-	■

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Model No. and options

Part number	Description
253892	SW 6012 Option for ITS 6006: RF-Switch network 2x SPDT
253893	SW 6012-MAN RF-Switch network 2x SPDT, power supply, manual operation