



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



SW 6012 front view

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



SW 6012 back 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-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
RF characteristics	
Relay type:	2x SPDT, N sockets 50 Ω
Power handling:	cold switching only
Power up to 100 MHz:	1500 W
Power up to 400 MHz:	800 W
Power up to 1 GHz:	500 W
Power up to 3 GHz:	300 W
Power up to 6 GHz:	200 W
Power up to 12.4 GHz:	150 W
VSWR 0 to 1 GHz:	typ. <1.15
VSWR 1 to 2 GHz:	typ. <1.2
VSWR 2 to 4 GHz:	typ. <1.25
VSWR 4 to 8 GHz:	typ. <1.45
VSWR 8 to 12.4 GHz:	typ. <1.5
Insertion loss 0 to 1 GHz:	typ. <0.15 dB
Insertion loss 1 to 2 GHz:	typ. <0.2 dB
Insertion loss 2 to 4 GHz:	typ. <0.25 dB
Insertion loss 4 to 8 GHz:	typ. <0.40 dB
Insertion loss 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

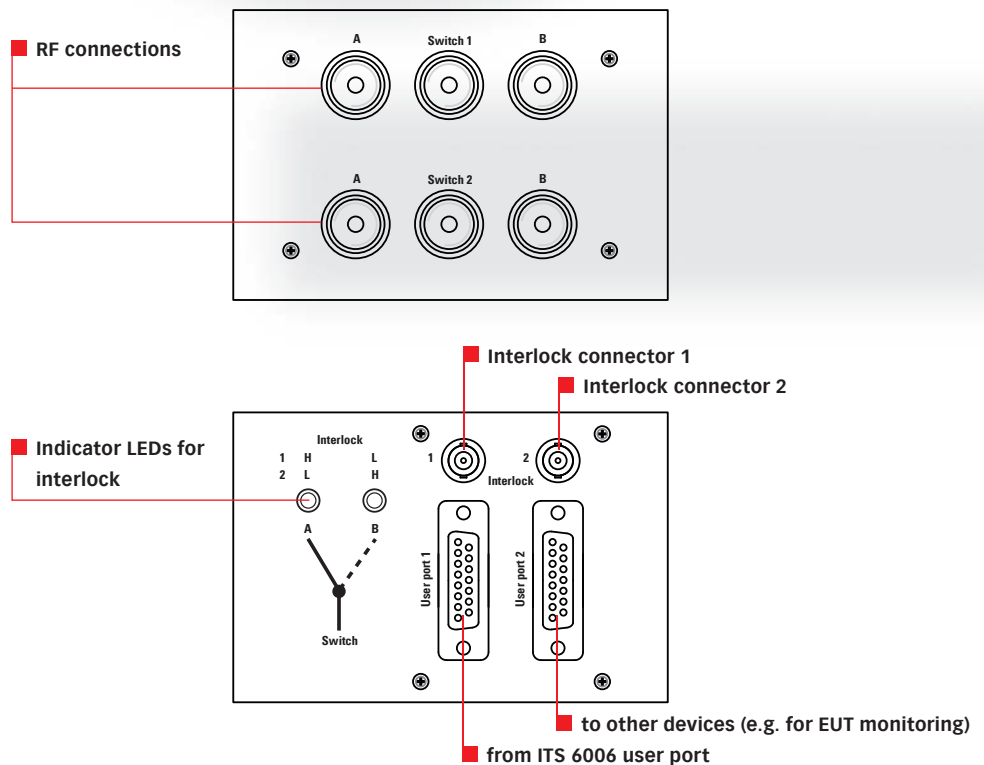
RF-SWITCH SOLUTION FOR ITS 6006

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	-	■

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