

# HF Power Switch **BPS-300**

Datasheet



Made in Germany

## Functions

The BELEKTRONIG HF Power Switch BPS-300 is used for fast switching of an RF input signal between the two output channels. Combined with the SAW Generator BSG the switching time of the signal output can be reduced from 10 ms to 300 ns.

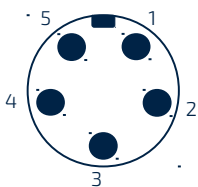
## Key Features

- ✓ Switching time: 300 ns
- ✓ Transferable power: 0..10 W
- ✓ Frequency range: 5...215 MHz

## Pin Assignment Control Input

### Connector Spolar

Soldering view connector Rear view device



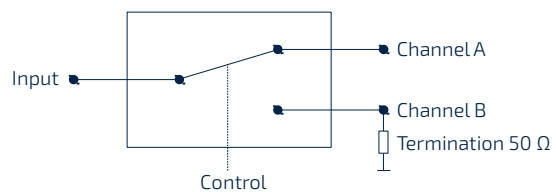
### Pin Assignment and Wire Color of Connecting Cable

Pin	Function	Wire Color
1	Control In 1	White
3	Ground	Black
5	Control In 2	Grey
2, 4	Not connected	Brown, blue

### Truth Table

Pin 1 [V]	Pin 5 [V]	Input Connected with
Control In 1	Control In 2	
0	5	Channel B
5	0	Channel A
0	0	N/A Not allowed
5	5	N/A Not allowed

## Application Example Pulse Generation



A signal with constant amplitude is applied to the input. To generate pulses, Channel A and B are switched.

**Technical Data**

**Signal Transmission**

- › Switching time: 300 ns
- › Frequency range: 5...215 MHz
- › Transferable power: 0...10 W
- › Insertion loss: ~0.4 dB
- › Logic level: 0 V, 5 V
- › No transmission of DC voltage signals

**Dimensions and Conditions of Operation**

- › Dimensions (L x W x H): 70 x 85 x 40 mm<sup>3</sup>
- › Weight: ~0.150 g
- › Operating temperature: 10...45°C
- › Relative humidity: 0...80 %, not condensating

**Scope of Delivery**

- › HF Power Switch BPS-300
- › Connecting cable

**SAW Generator BSG: The Perfect Tool for Applications in Acoustofluidics**



- › Capable of replacing the cost-intensive and complex setups that have been necessary so far to drive and characterize SAW actuators
- › Characterization of SAW actuators, signal generation, signal amplification and continuous monitoring
- › Easy and intuitive operation

**Accessories for the SAW Generator BSG  
HF Power Combiner / Splitter BPC-10**



- › HF Power Combiner / Splitter BPC-10
- › Customization of BSG firmware

Technical modifications and errors excepted. Images similar. Last update: 21.03.2019

Learn more about the quality standards of BELEKTRONIG and easily request a quote for your individual experimental setups.  
Dr.-Ing. Glen Guhr and Dr.-Ing. Raimund Bruenig

