



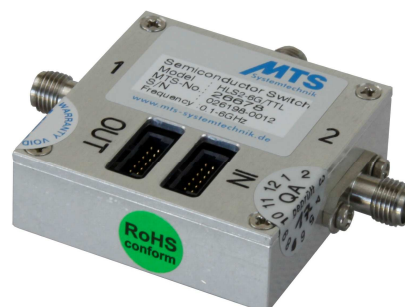
## Semiconductor Switch HLS2-6G/TTL

MTS-No.: 26678

### Description

The Semiconductor Switches of this series are designed to work between 100 MHz and 6000 MHz. They cover for example GSM, DECT, UMTS, Bluetooth, WiMAX, Wi-Fi (2.4G / 5G) and all LTE frequency bands.

These units are high isolation absorptive RF switches. They can easily be controlled by TTL interface.



### Technical data:

#### 1 RF-specifications:

1.1	Switch type	HLS2, 2-way absorptive		
1.2	Impedance	50 Ω		
1.3	Input power	32 dBm max.		
	@ common port	26 dBm max. (terminated)		
1.4	Frequency range	100 - 6000 MHz		
1.5	Switching time	<10 μs typ.		
1.6	VSWR in	<b>min.</b>	<b>typ.</b>	<b>max.</b>
	@ 100 - 3000 MHz		1.2	1.5
	@ 3000 - 6000 MHz		1.3	1.65
	VSWR out			
	@ 100 - 3000 MHz		1.2	1.5
	@ 3000 - 6000 MHz		1.2	1.55
	VSWR terminated		1.2	1.5
1.7	Insertion loss			
	@ 100 MHz		0.7 dB	0.8 dB
	@ 3000 MHz		1.1 dB	1.3 dB
	@ 6000 MHz		1.4 dB	1.7 dB
1.8	IL derating / 200 MHz		0.03 dB	0.04 dB
1.9	Isolation			
	@ RFC-RFX	40 dB	45 dB	
	@ RFX-RFX	40 dB	50 dB	

#### 2 Connections:

2.1	RF-in- and outputs	3x SMA female
2.2	Control connectors	2x 12 pole male (parallel), type SMC Erni

#### 3 General specifications:

3.1	Internal voltage (TTL)	5 VDC ±5 %
3.2	Power consumption	5 mW max.
3.3	Control interface	8 bit for data (a1, b1, a2, b2, a3, b3, a4, b4), TTL
3.4	Operating temperature	-40 °C - +85 °C
3.5	Storage temperature	-55 °C - +150 °C
3.6	Reference temperature of specifications	+25 °C
3.7	Dimensions (without connections)	40 mm x 40 mm x 13 mm (LxWxH)
3.8	Case style	Milled aluminium enclosure
3.9	Colour	SurTec650 (Chrome alloy)
3.10	Weight	45 grams

#### 4 Delivered parts:

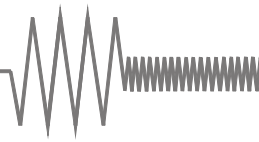
HLS2-6G/TTL  
Datasheet

#### 5 Comments:

Warranty 12 months  
RoHS-compliant Yes

#### 6 Recommended accessories:

RF-cables  
Controller card for HLS8



# Semiconductor Switch HLS2-6G/TTL

MTS-No.: 26678

## Typical measurements:

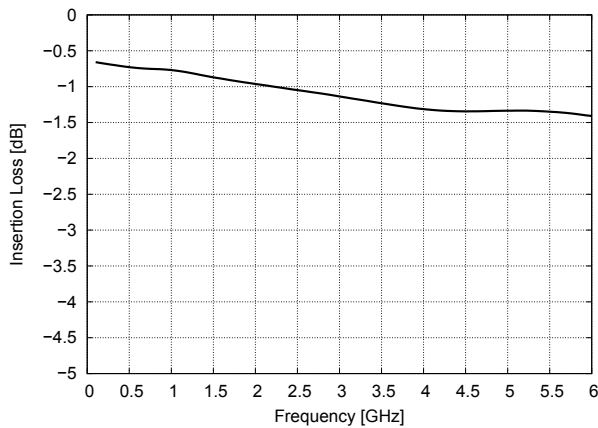


Fig. 1: Input port to output port insertion loss

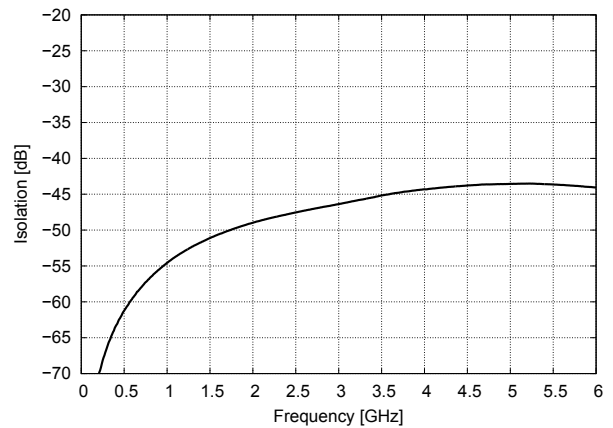


Fig. 2: Isolation between in- and output ports (RFC-RFX)

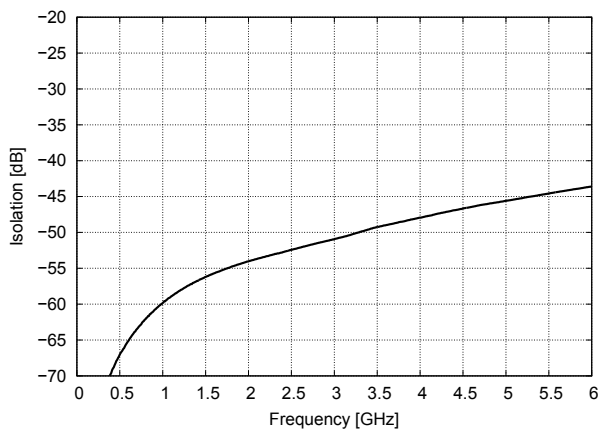


Fig. 3: Isolation between output ports (RFX-RFX)

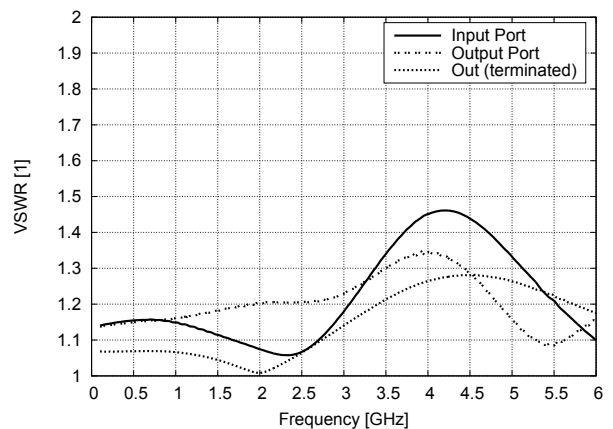


Fig. 4: VSWR for input and output ports

# Semiconductor Switch HLS2-6G/TTL

MTS-No.: 26678

Views:

