

## Semiconductor Switch HLS8-5340-X

MTS-No.: 14414

### Short description

The Semiconductor Switch HLS8-5340-X has been developed by MTS for long-term reliability and provides a very high isolation. It is configured with 1 input and 8 outputs (others on request). The HLS fits for the most mobile applications and for the satellite communication (L-band) because of its high bandwidth from 3 MHz to 3 GHz.



### Technical data:

#### 1 RF-specifications:

1.1 Impedance	50 Ω
1.2 Input power	+26 dBm max., +21 dBm max. at the internal terminations
1.3 Frequency range	3 MHz - 3000 MHz
1.4 Switching time	<10 μs typ.
1.5 VSWR in	3 MHz – 3000 MHz: <2,5:1 3 MHz – 2000 MHz: <1,9:1
1.6 VSWR out (switched or internal terminated)	3 MHz – 3000 MHz: <2,5:1 3 MHz – 2000 MHz: <1,9:1
1.7 Isolation (input of switched path to not switched output)	700 MHz - 1100 MHz: >70 dB 3 MHz - 3000 MHz: >60 dB
1.8 Insertion loss	700 MHz - 1100 MHz: <4,5 dB 3 MHz - 3000 MHz: <6,5 dB

#### 2 Connections:

2.1 RF-input	1x SMA female
2.2 RF-output	8x SMA female
2.3 Control and voltage supply	1x SMC socket 5 V DC

#### 3 General specifications:

3.1 Power supply	5 V DC ± 5 %
3.2 Power consumption primarily	<1 mA typ.

3.3 Control interfaces	4 bit for data + 3 bit for address + 1 bit for enable (TTL), latched
3.4 Voltage supply	Erni SMC connector system 1,27 mm, 12 pole
3.5 Operating temperature	0 °C – +50 °C additional cooling not necessary
3.6 Reference temperature for specifications	+25 °C
3.7 Dimensions (without connections)	114 mm x 82 mm x 18 mm (LxWxH)
3.8 Case style	Milled aluminium enclosure
3.9 Colour	Nickel plated
3.10 Weight	0,250 kg

#### 4 Delivered parts:

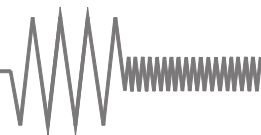
Semiconductor switch HLS8-5340-X  
Drawing and connector pin assignment

#### 5 Comments:

Warranty	12 months
RoHS-compliant	Yes

#### 6 Recommended accessories:

Control card for HLS  
Bus board for HLS  
RF-cables



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**Views:**

