



Filter Module FIL-USB-3.1-A

MTS-No.: 29400

Description

The Filter Module USB 3.1 with integrated ESD protection and EMI filter is designed to be built in at MTS Shielding Boxes series MSB. It supports "Super Speed (Plus), High Speed and Full Speed" and is suitable for testing mobiles, tablets or similar devices with high data rates under shielded conditions.

Passive filter elements are included.

The connectors are USB 3.0 type A socket.



Technical data:

1 USB specifications:

1.1 Supported standards	USB 1.x, USB 2.0, USB 3.0, USB 3.1	
1.2 Transfer rates (depends on host)		
@ USB 1.x	12 Mbit/s typ. (1.5 MB/s)	
@ USB 2.0	320 Mbit/s typ. (40 MB/s)	
@ USB 3.0	3000 Mbit/s typ. (375 MB/s)	
@ USB 3.1	6000 Mbit/s typ. (750 MB/s)	
1.3 Voltage	16 V DC max.	
1.4 Current capacity	1.5 A max.	
1.5 ESD protection (IEC-61000-4-2)	±15 kV (air), ±8 kV (contact)	
1.6 EMI filter	Common mode chokes	
1.7 Pinning USB interface		
@ Pin 1	VBUS	T filter
@ Pin 2	D-	ESD & EMI
@ Pin 3	D+	ESD & EMI
@ Pin 4	GND	Ground
@ Pin 5	SSRX-	ESD & EMI
@ Pin 6	SSRX+	ESD & EMI
@ Pin 7	GND_DRAIN	Ground SS
@ Pin 8	SSTX-	ESD & EMI
@ Pin 9	SSTX+	ESD & EMI
@ Shell	Shield	Housing

2 Connections:

2.1 USB interface outside	USB 3.0 type A socket
2.2 USB interface inside	USB 3.0 type A socket

3 General specifications:

3.1 Operating temperature	-30 °C - +70 °C
3.2 Storage temperature	-40 °C - +80 °C
3.3 Reference temperature for specifications	+25 °C
3.4 Dimensions (without connections)	71 mm x 33 mm x 31 mm (LxWxH)
3.5 Case style	Milled aluminium enclosure
3.6 Colour	SurTec650 (chromit Al)
3.7 Weight	110 grams

4 Delivered parts:

Filter Module FIL-USB-3.1-A
Datasheet

5 Comments:

Warranty	12 months
RoHS-compliant	Yes

6 Recommended accessories:

USB 3.1 cables type A / type A 0.5 m (Host to Filter)
USB 3.1 cables type A / type C 0.5 m (Filter to Device)

Filter Module FIL-USB-3.1-A

MTS-No.: 29400

Views:

