

Filter Module FIL-RJ45-PoE++

MTS-No.: 30800

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Description

The Filter Module RJ45 with integrated EMI filter is designed to be built in at MTS Shielding Boxes series MSB. It supports "Ethernet, Fast Ethernet and Gigabit-Ethernet" and is suitable for testing mobiles, tablets or similar devices with high data rates under shielded conditions.

PoE++ power passing compatible and passive filter elements are included.

The connectors are RJ45 CAT 5 modular jacks.



Technical data:

1 RJ45 specifications:

1.1 Supported standards	10 / 100 / 1000 Ethernet	
1.2 Transfer rates		
@ Ethernet	10 Mbit/s typ. (1.2 MB/s)	
@ Fast Ethernet	100 Mbit/s typ. (12.5 MB/s)	
@ Gigabit-Ethernet	1000 Mbit/s typ. (125 MB/s)	
1.3 PoE compatibility	PSE max.	PD min.
@ PoE (802.3af)	15.4 W	13.0 W
@ PoE+ (802.3at)	30.0 W	25.5 W
@ PoE++ (802.3bt)	90.0 W	71.0 W
1.4 Voltage		
@ each pin	60 V DC max.	
1.5 Current capacity		
@ each line	1500 mA max.	
1.6 EMI filter	Common mode chokes	
1.7 RF shielding	80 dB typ.	
1.8 Pinning RJ45 interface		
@ Pin 1	D1+	EMI
@ Pin 2	D1-	EMI
@ Pin 3	D2+	EMI
@ Pin 4	D3+	EMI
@ Pin 5	D3-	EMI
@ Pin 6	D2-	EMI
@ Pin 7	D4+	EMI
@ Pin 8	D4-	EMI
@ Shell	Shield	Housing

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) (LxWxH)	71 mm x 41.75 mm x 31 mm
3.5 Case style	Milled aluminium enclosure
3.6 Colour	SurTec650 (chromit Al)
3.7 Weight	155 grams

4 Delivered parts:

Filter Module FIL-RJ45-PoE++
Datasheet

5 Comments:

Warranty	12 months
RoHS-compliant	Yes

6 Recommended accessories:

RJ45 CAT5e cables or higher

2 Connections (outside / inside):

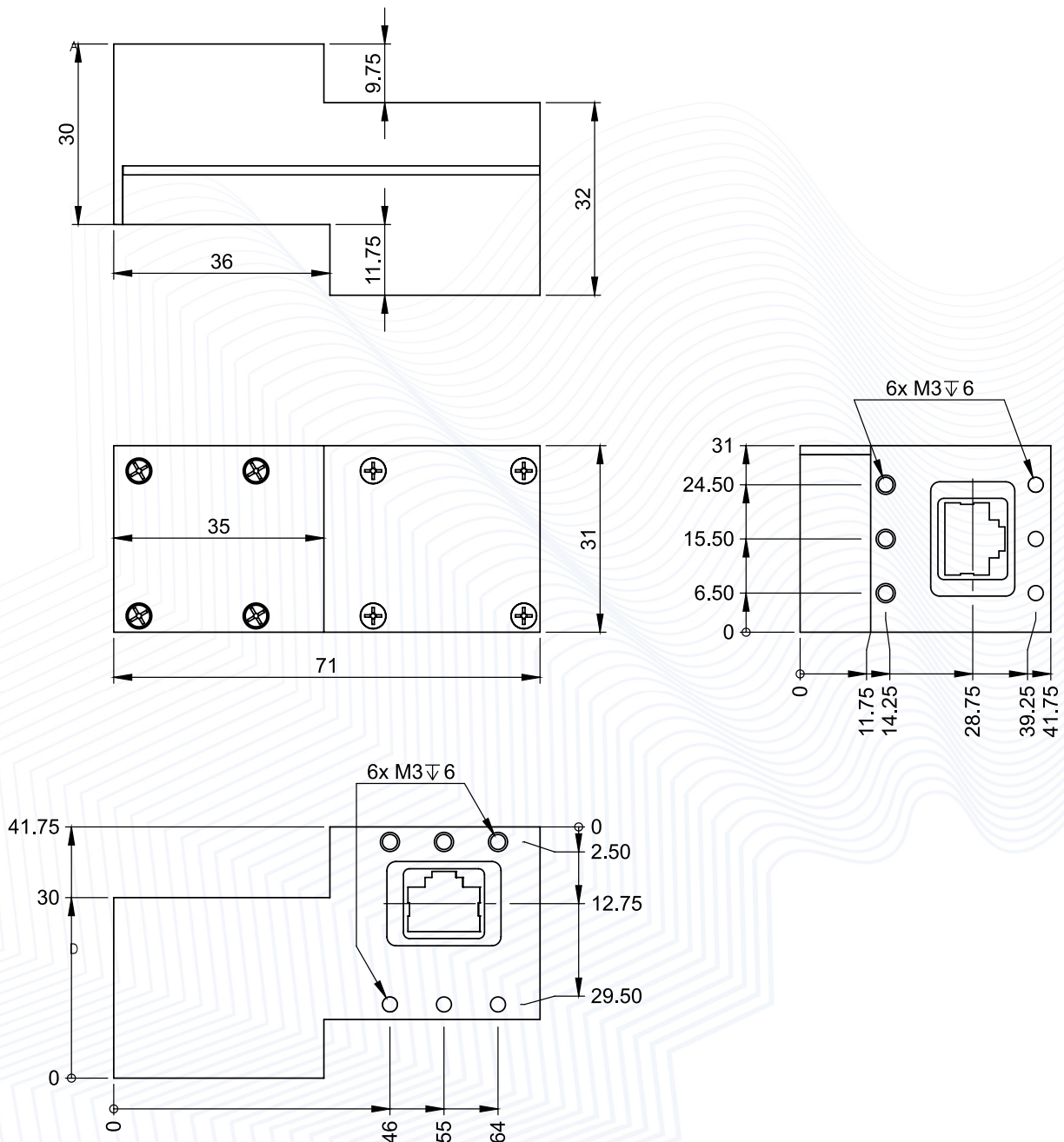
2.1 RJ45 interface	CAT 5 modular jack
2.2 Durability	
@ each connector	500 cycles

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Typical RF shielding:

