Filter Module FIL-RJ45-PoE++

MTS-No.: 30800-01

Description

The feedthrough Filter Module RJ45-PoE++ with integrated EMI filter is designed to be built in at MTS Shielding Boxes series MSB. It supports Ethernet (10 Mbit/s), Fast Ethernet (100 Mbit/s), Gigabit-Ethernet (up to 10 Gbit/s) 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.6A modular jacks.

Technical data:

1 RJ45 specifications:

1.1	Supported standards (Base-T)	10, 100, 1000, 2.5G, 5G, 10G	
1.2	Transfer rates (depends on host)		
	@ 10Base-T	8 Mbit/s typ. (1 MB/s)	
	@ 100Base-T	88 Mbit/s typ. (11 MB/s)	
	@ 1000Base-T	880 Mbit/s typ. (110 MB/s)	
	@ 10GBase-T	8800 Mbit/s typ. (1100 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

2 Connections (outside / inside):

2.1	RJ45 interface	CAT.6A modular jack
2.2	Durability @ each connector	500 cycles

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 41.75 mm x 31 mm (LxWxH)
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:

Shielded S/FTP CAT.6A RJ45 patch cables or higher with a total length up to 30 meters.

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Technical subject to change

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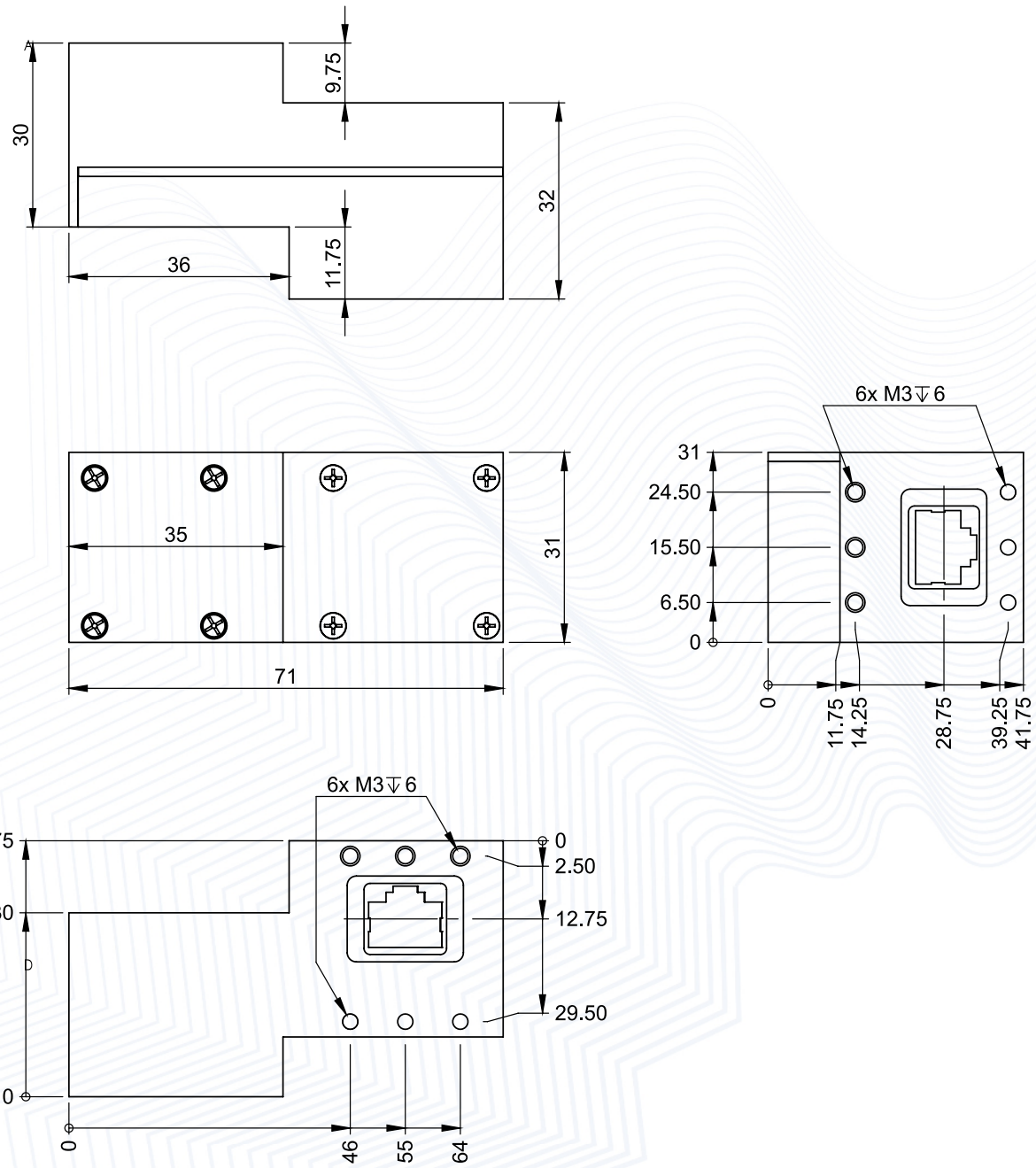
Views:



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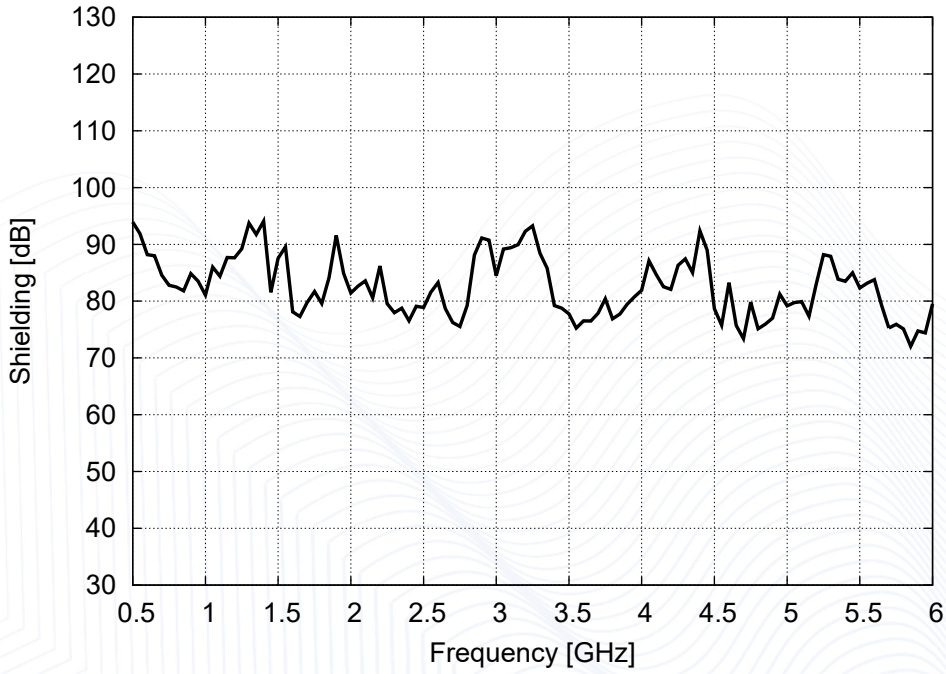
Typical RF shielding:



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