

Indoor RF passives

## Enhanced Docsis Filter **3EDF-01K**

The 3EDF-01K Enhanced Docsis Filter is designed to combine D3.1 services with legacy 5-65 / 85-1218 MHz home amplifiers. The filter is designed to fit onto 4 and 6 port standard home amplifiers.

### Features

- Frequency range up to 1218 MHz, Docsis 3.1 compliant, however frequencies up to 1.8 GHz are supported
- Easy to install
- Electromagnetic compatibility exceeds Class A+ (= Class A +10 dB)
- Including a metal bracket compatible with standard 4 and 6 ports Home amplifiers



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## INDOOR RF PASSIVES / 3EDF-01K

ELECTRICAL SPECIFICATIONS					
Insertion Loss (dB) - IN to DATA			Insertion Loss (dB) - IN to AMP		
Frequency (MHz)	Max.	Typ.	Frequency (MHz)	Max.	Typ.
5 - 10	4.5	4.0	5 - 10	5.0	4.5
10 - 258	4.0	3.5	10 - 61	4.5	4.0
258 - 1006	4.3	3.8	61 - 65	5.0	4.5
1006 - 1218	4.5	4.0	258 - 271	5.0	4.5
			271 - 862	4.6	4.5
			862 - 1006	4.7	4.5
			1006 - 1218	5.3	5.0
Rejection (dB) - IN to AMP			Isolation (dB) - DATA to AMP		
	Min.	Typ.		Min.	Typ.
85 - 204	45.0	50.0	5 - 15	25.0	-
			15 - 65	30.0	-
			85 - 204	55.0	-
			258 - 1006	27.0	-
			1006 - 1218	25.0	-
Return Loss (dB) - IN			Return Loss (dB) - DATA		
	Min.	Typ.		Min.	Typ.
5 - 15	15.0	-	5 - 15	15.0	-
15 - 65	18.0	-	15 - 204	18.0	-
65 - 85	8.0	10.0	204 - 1218	20.0 <sup>(1)</sup>	-
85 - 204	16.5	-			
204 - 258	8.0	10.0			
258 - 1218	20.0 <sup>(1)</sup>	-			
Return Loss (dB, min.) - AMP					
5 - 15			15.0		
15 - 65			18.0		
65 - 204			16.5 <sup>(2)</sup>		
258 - 1218			18.0 <sup>(2)</sup>		
GENERAL					
Frequency range (MHz)	5 - 1218 MHz		Nominal Impedance	75 Ohm	
Operating Temperature Range	0 to +40 °C <sup>(3)</sup>		Product approval	CE	
Connectors <sup>(4)</sup>	IN / DATA		Type: moulded F-female Spring	Material: Zinc Die-cast + Nickel plating Material: Phosphor bronze + Nickel plat.	
	AMP		Type: moulded F-male	Material: Zinc Die-cast + Nickel plating	
Housing	Material: Zinc die cast + Nickel plating		Surge Immunity Test	1 kV, 1.2/50 µsec <sup>(6)</sup>	
Electromagnetic Compatibility (dB, Min.) <sup>(5)</sup>	(MHz)		Intermodulation distortion <sup>(7)</sup> (dBc, Min.)		
	5 - 15	85.0		115.0 <sup>(a)</sup>	
	15 - 30	95.0		110.0 <sup>(b)</sup>	
	30 - 300	95.0		105.0 <sup>(c)</sup>	
	300 - 470	90.0			
Class A+ (= Class A +10dB)	470 - 950	85.0	2f1, f1 + f2, 2f2		
	950 - 1800	70.0			
Dimensions (mm)	Filter	58.5 x 65.2 x 19 (con./brackets incl.)	Weight	Filter	0.075 kg
	Plate	142.5 x 52.5 x 23 (Thickness 1mm)		Plate	0.045 kg
				Filter kit	0.142 kg
NOTES					
1. 20 dB at F ≥ 40 MHz -1.5 dB/ oct., 13 dB min. at 1218 MHz					
2. 18 dB at F ≥ 40 MHz -1.5 dB/ oct., 12 dB min. at 1218 MHz specified in the bands 5-65, 85-204, 258-1218 MHz					
3. Temperature range within which the device will be within specifications					

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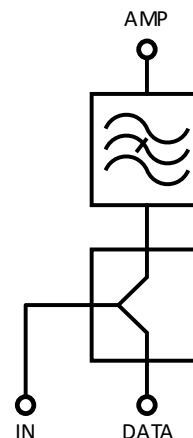
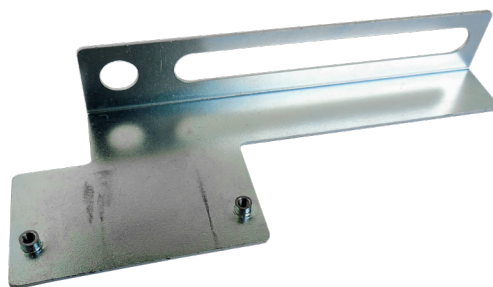
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### NOTES

4. According to IEC 61169-24
5. EMC exceeding Class A+ (= Class A +10 dB), acc. to IEC60728-2
6. Surge voltage 1kV, 1.2/50 $\mu$ s according to IEC 61000-4-5, EMC (class 2, level 2) applied between the inner and outer conductor of each port
7. Two carriers (60 & 65 MHz), applied to each bi-directional port IN or DATA, @ 118 dB $\mu$ V
  - a. No Surge
  - b. Measured after 10 pulses 25 VDC (1.2/500  $\mu$ S) have been applied to each port
  - c. Measured after 1 pulse of 1 kV (1.2/50  $\mu$ sec) have been applied to each port

### IMAGERY & BLOCK DIAGRAM



### ORDERING INFORMATION

**3EDF-01K**

3EDF-01 pre-mounted on a bracket incl. 2 x washers and 2 x F-nuts

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