



PRODUCT FAMILY	DESCRIPTION
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<b>INDOOR RF PASSIVES</b>	<b>FULLY ISOLATED SYSTEM OUTLET: FISO-20</b>
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	FEATURES
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- >> Frequency range 5-1006 MHz
- >> Frequency split 65/85 MHz
- >> Class A screening effectiveness
- >> Outstanding RF performance
- >> Ultra low leakage current
- >> Nickel Tin plated input (all contacts)

## SPECIFICATIONS

### INSERTION LOSS - IN TO DATA

Frequency (MHz)	Min. (dB)	Typ. (dB)	Max. (dB)
5 - 65		1.2	2.0
85 - 550	3.6	4.2	4.9
550 - 1006	3.9	4.5	5.3

### INSERTION LOSS - IN TO RTV

Frequency (MHz)	Min. (dB)	Typ. (dB)	Max. (dB)
5 - 65	30.0	40.0	
85 - 1006	3.4	4.2	4.9

### RETURN LOSS (dB, Min.) - INPUT

Frequency (MHz)	Min. (dB)
5 - 65	18.0
85 - 1006	18.0

### RETURN LOSS (dB, Min.) - DATA

Frequency (MHz)	Min. (dB)
5 - 65	15.0
85 - 1006	15.0

### RETURN LOSS (dB, Min.) - RTV

Frequency (MHz)	Min. (dB)
85 - 1006	14.0

### ISOLATION (dB, Min.) - RTV TO DATA

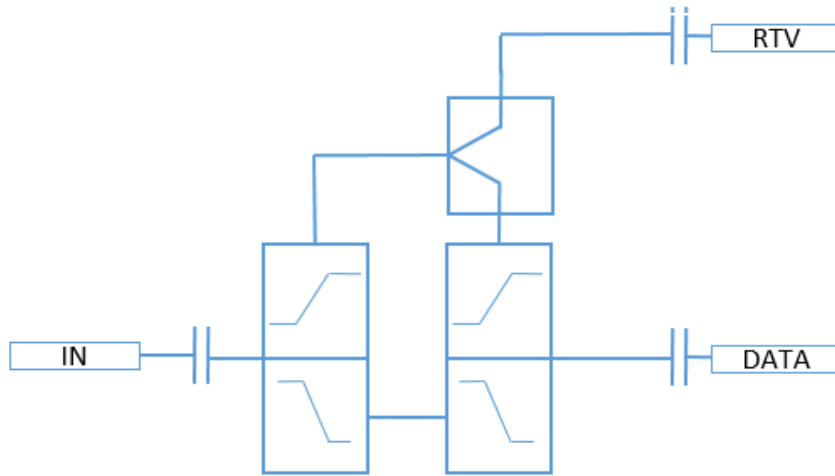
Frequency (MHz)	Min. (dB)
5 - 65	35.0
85 - 150	14.0
150 - 1006	19.0

**GENERAL SPECIFICATIONS**

Nominal impedance	75 Ohm
Frequency range	5 - 1006 MHz
Connectors Input/Output Plating input connector/F-spring Plating output connector/F-spring	F-female NiSn Nickel
Dimensions (h x w x h)	20 x 60 x 38 mm
Weight	0,090 kg
Specified temperature	5 ... 40°C <sup>(1)</sup>
Electromagnetic comp. <sup>(2)</sup> (dB, Min.) 5-300 300-470 470-950	85.0 80.0 75.0
Intermodulation (f1+f2) (dBc, Min.)	-122.0 <sup>(3)</sup> -105.0 <sup>(4)</sup>
Product approval	CE
EMC compatibility	EN 50083-2 2012
Safety isolation 2120 VDC <sup>(5)</sup> Inner conductor input to inner conductor output Outer conductor input to outer conductor output	Leakage current ≤ 0.7 mA, ≥ 1 minute
Safety isolation 230 VAC RMS, 50/60 Hz <sup>(5)</sup> Inner conductor input to inner conductor output Outer conductor input to outer conductor output	Leakage current ≤ 8.0 mA RMS, 5 to 40 °C range
Surge Immunity	1 kV, 1.2/50µS <sup>(6)</sup>
Material/plating Housing Input connector F-Spring	Zinc/Nickel Brass/NiSn <sup>(7)</sup> PB/NiSn

**NOTES:**

- (1) Temperature range within which the device will be within specification
- (2) Class A, according to IEC 60728-2 2012, EMC (except in 5 - 10 MHz where we can Class B)
- (3) Out of the box
- (4) Two carriers (60 & 65 MHz), applied to (each) output port, @120dBµV. Measured after 1 pulse 1kV (1,2/50µS) applied to each port. In accordance with IEC 60728-4
- (5) According to IEC-60728-11 2007, Safety.
- (6) Surge voltage according to IEC 61000-4-5, EMC (class 2, level 2) applied between the inner and outer conductor of each port
- (7) Dimensions in accordance with IEC 61169-24

**BLOCK DIAGRAM****ORDERING INFORMATION****FISO-20**

Fully Isolated System Outlet (Isolator), 5-1006 MHz, 1x Data port and 1x RTV port