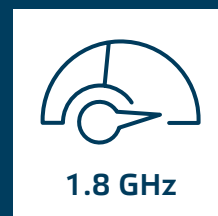
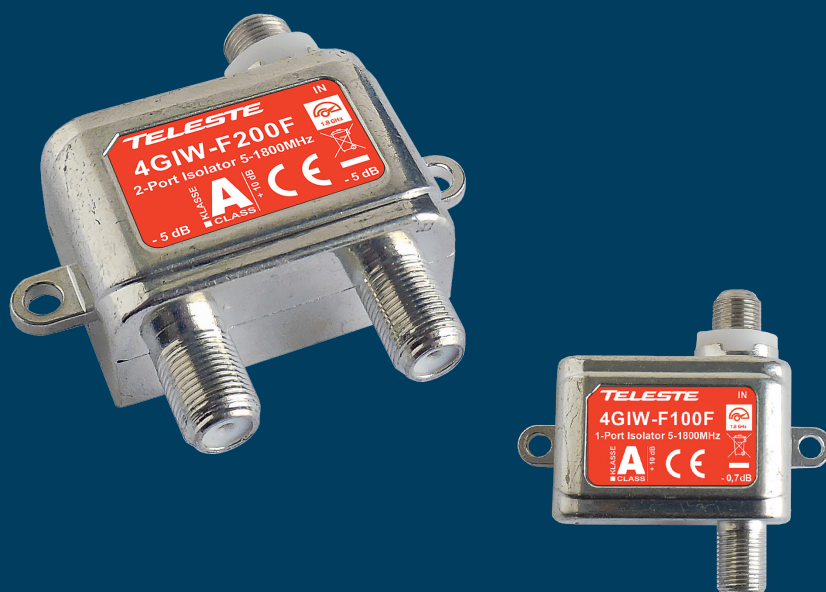


DOCSIS 4.0
R E A D Y



Indoor RF passives

Galvanic Isolators 4GIW-xy00z

The 4GIW range are a range of 1.8 GHz high quality Fully Isolated System Outlets which are used to galvanically separate the coaxial access network from subscribers premises. They prevent issues caused by electrical problems such as voltage surges and lightning from damaging Customer Premise Equipment.

Features

- Frequency range up to 1.8 GHz, Docsis 4.0 compliant
- 1-port and 2-port versions available
- Protection against power surges
- Compact design with Zinc Alloy die-cast housing & Tin plated soldered back
- Electromagnetic compatibility exceeds Class A+ (= Class A +10 dB)

One of Teleste's unique and award winning superior performance passives designed for easy installation and reliability.

TELESTE

INDOOR RF PASSIVES / 4GIW-xy00z

ELECTRICAL SPECIFICATIONS					
INSERTION LOSS (dB)					
	4GIW-F100F		4GIW-F200F		
Frequency (MHz)	QA	Typ.	QA	Typ.	
5 - 10	0.3	0.2	4.0	3.7	
10 - 470	0.3	0.2	4.0	3.8	
470 - 1002	0.4	0.3	4.2	3.8	
1002 - 1218	0.6	0.4	4.5	4.0	
1218 - 1500	0.8	0.6	4.9	4.3	
1500 - 1800	1.0	0.7	5.3	5.0	
RETURN LOSS (dB, Min.) - Input/Output					
5 - 10	18.0		12.0		
10 - 470	18.0		18.0		
470 - 1002	18.0		18.0		
1002 - 1218	18.0		18.0		
1218 - 1500	16.0		16.0		
1500 - 1800	16.0		16.0		
ISOLATION (dB, Min.) - OUT to OUT					
5 - 10	-		20.0		
10 - 470	-		20.0		
470 - 1002	-		22.0		
1002 - 1218	-		22.0		
1218 - 1500	-		20.0		
1500 - 1800	-		20.0		
GENERAL SPECIFICATIONS					
Nominal impedance	75 Ohm	F Connectors	EN-61169-24 Compliant	Dimensions	59,5 x 56,9 x 20,3 mm
Housing	Material: Zinc-die-cast + Plating: Tin	Operating temperature	-40 ° to + 60 °C	Weight	1-port: 0,052 kg 2-port: 0,056 kg
Electromagnetic Compatibility ⁽¹⁾ (dB, Min.)			Intermodulation distortion ⁽²⁾ All ports (dBc, Min.) (2f1, f1+f2, 2f2)	4GIW-F100F	4GIW-F200F
5 - 10		95.0	before surge	-120.0 ^(a)	-120.0 ^(a)
10 - 300		95.0	after 25 V surge	-120.0 ^(b)	-115.0 ^(b)
300 - 470		90.0	after 1 kV surge	-120.0 ^(c)	-105.0 ^(c)
470 - 950		85.0			
950 - 1218		65.0			
1218 - 1800		65.0			
Class A+ (= Class A +10dB)					
Safety Isolation	2120 VDC ⁽³⁾	Inner conductor (Input) to Inner conductor (Output) Outer conductor (Input) to Outer conduct. (Output)			≤ 0.7 mA, ≥ 1 minute
	230 VAC RMS, 50/60 Hz ⁽⁴⁾	Inner conductor (Input) to Inner conductor (Output) Outer conductor (Input) to Outer conduct. (Output)			≤ 2.0 mA RMS
NOTES					
(1) 5-30 MHz (Transfer Impedance Method acc. to EN-60728-2), 30-1800 MHz (Absorption Clamp Method acc. to EN-60728-2 Sec 4.4),					
(2) a. Two carriers (60 & 65 MHz), Output to Input, @ 120dBuV, before surge					
b. Two carriers (60 & 65 MHz), Output to Input, @ 120 dBuV, after 10 pulses (25 V/1.2 uS rise time/500 uS fall time) at all ports					
c. Two carriers (60 & 65 MHz), Output to Input, @ 120 dBuV, after 1 pulse (1 KV/1.2 uS rise time/500 uS fall time) at all ports					
(3) EN-60728-11/10 Safety Requirements: 2120 VDC ≥ 1minute, I = ≤ 0.7 mA					
(4) EN-60728-11/10 Safety Requirements: 230 VAC, I = ≤ 2.0 mA (0 to 25 °C)					
ORDERING INFORMATION					
4GIW-F100F	1-port Galvanic Isolator, 1.8 GHz, F input and F output port				
4GIW-F200F	2-port Galvanic Isolator, 1.8 GHz, F input and F output ports				

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TELESTE CORPORATION
www.teleste.com

PRELIMINARY - 4GIW-xy00z_20210706

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