



Indoor RF passives

Galvanic Isolator 4GIS-F102F

The 4GIS-F102F is a 1.8 GHz high quality Fully Isolated System Outlet which are used to galvanically separate the coaxial access network from subscribers premises. It prevents issues caused by electrical problems such as voltage surges and lightning from damaging Customer Premise Equipment.

Features

- 5-1800 MHz Bandwidth
- Protection against power surges
- Withstands 2120 VDC for at least one minute not exceeding 0.7 mA leakage current (acc. to IEC 60728-11)
- Withstands 230 VAC RMS better than ≤2.0 mA RMS (acc. to IEC 60728-11)
- Compact design with Zinc Alloy/Nickel plated die-cast housing and Nickel plated Copper back
- CE & RoHS Compliant
- Class A+ (=Class A +10dB) IEC60728-2

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





INDOOR RF PASSIVES / 4GIS-F102F

ELECTRICAL SPECIFICATIONS					
INSERTION LOSS (dB, Max.)					
Frequency (MHz)	QA		TYP.		
5 - 470 471 - 1000 1001 - 1800	0.8 0.9 1.1		0.2 0.4 0.7		
RETURN LOSS (dB, Min.) - Input/Output					
Frequency (MHz) 5 - 40 41 - 1218 1219 - 1700		19.0 20.0 16.0	31.0 28.0 24.0		
1701 - 1800		15.0	24.0		
ISOLATION (dB, Min.) - OUT to OUT					
5 - 1000 1000 - 1500 1500 - 1800			N/A N/A N/A		
GENERAL SPECIFICATIONS					
Nominal impedance	75 Ω	F Connectors	EN-61169-24 Compliant	Dimensions	60 x 44 x 20 mm
Housing	Zinc-alloy Nickel plated	Operating temperature	-20 ° to + 60 °C	Weight	0,064 kg
EMC compatibility ⁽¹⁾ IEC60728-2 Class A+ (+ 10dB) 5 - 10 11 - 30 31 - 300 301 - 470 470 - 699 700 - 862 863 - 1000 1001 - 1800	50.0 75.0 95.0 90.0 85.0 95.0 85.0 65.0		Intermodulation p+q ⁽²⁾ After 25 V surges After 1 kV surge	-120.0 -115.0	
Galvanic isolation	2120 VDC ⁽³⁾ Inner condu Outer condu		ctor (Input) to Inner conductor (Output) uctor (Input) to Outer conduct. (Output)		≤ 0.7 mA RMS
	230 VAC ⁽⁴⁾ Inner condu Outer condu		ctor (Input) to Inner conductor (Output) uctor (Input) to Outer conduct. (Output)		≤ 2.0 mA RMS
Surge immunity ⁽⁵⁾			1.2/50 μs combination wave, 1 KV/500 A/2 Ohm (on all ports)		

(1) Class A +10 dB, values acc. to IEC 60728-2 plus 10 dB, EMC measured with Comet Tube System

(2) Two carriers (60 & 65 MHz), Output to Input, @ 120 dBµV, before surge

Two carriers (60 & 65 MHz), Output to Input, @ 120 dBµV, after 10 pulses (25 V/1.2 µS rise time/500 µS fall time) at all ports

Two carriers (60 & 65 MHz), Output to Input, @ 120 dBµV, after 1 pulse (1 KV/1.2 µS rise time/500 µS fall time) at all ports

(3) EN-60728-11/10 Safety Requirements: 2120 VDC \ge 1minute, I = \le 0.7 mA

(4) EN-60728-11/10 Safety Requirements: 230 VAC, I = \leq 8.0 mA

(5) IEC 61000-4-5 (Class 2, level 2 , Combination wave 1KV)

4GIS-F102F

1-port Galvanic Isolator, 1.8 GHz, F input and F output port



TELESTE CORPORATION www.teleste.com

4GIS-F102F_20240531

Copyright © 2024 Teleste Corporation. All rights reserved. Teleste and the Teleste logo are registered trademarks of Teleste Corporation. Other product and service marks are property of their respective owners. Teleste reserves the right to make changes to any features and specifications of the products without prior notice. Although the information in this document has been reproduced in good foith, the contents of this document are provided "as is". Teleste makes no warranties of any kind in relation to the accuracy, reliability or contents of this document, except as required by applicable law.