



Indoor RF passives

Galvanic Isolators **GIS-204C**

GIS isolators are used to galvanically isolate the coaxial access network from subscribers premises. They prevent problems caused by potential differences from occurring on sensitive devices like LCD and Plasma screens, VoIP and cable modems, when connected directly to system outlet. All the isolators withstand 2120VDC, 230VAC.

Features

- Frequency range up to 1218 MHz, Docsis 3.1 compliant
- Outstanding RF performance
- 100% HI-POT test in production
- Press-in sealing technology with Aluminum lid for corrosion protection
- Pull force in use <50kgs, Twist torque in use <50kgf.cm (5.1Nm)

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

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INDOOR RF PASSIVES / GIS-204C

ELECTRICAL SPECIFICATIONS			
INSERTION LOSS (dB, Max.) - IN to TV		INSERTION LOSS (dB, Max.) - IN to DATA	
Frequency (MHz)	QA/TYP	Frequency (MHz)	QA/TYP
85 - 205	5.0/3.8	5 - 14	4.2/3.2
205 - 862	5.0/3.7	14 - 85	4.2/3.2
862 - 1000	5.0/4.1	85 - 862	4.7/3.6
1000 - 1218	5.1/4.3	862 - 1000	4.9/4.0
		1000 - 1218	5.1/4.3
RETURN LOSS (dB, Min.) - IN		RETURN LOSS (dB, Min.) - TV	
85 - 205	16.0/31.0	85 - 205	15.0/18.0
205 - 1000	18.0/29.0	205 - 750	16.0/25.0
1000 - 1218	18.0/23.0	750 - 1000	15.0/19.0
		1000 - 1218	18.0/23.0
RETURN LOSS (dB, Min.) - DATA		ISOLATION (dB, Min.) - TV to DATA	
5 - 14	20.0/24.0	5 - 65	45.0/73.0
14 - 85	19.0/22.0	85 - 205	21.0/24.0
85 - 862	19.0/30.0	205 - 450	20.0/24.0
862 - 1000	20.0/34.0	450 - 1000	20.0/25.0
1000 - 1218	19.0/25.0	1000 - 1218	21.0/24.0
REJECTION LOSS (dB, Min.)			
Frequency (MHz)		QA/TYP	
5 - 64		45.0/56.0	
65		40.0/46.0	
GENERAL SPECIFICATIONS			
Frequency range (MHz)	5 - 1218 MHz	Nominal Impedance	75 Ohm
Operating temperature	-20 ° to +60 °C	Dimensions (L x W x D)	47.8 x 59 x 20 mm
Safety Isolation	2120 VDC	Inner conductor Input to Inner conductor Output Leakage current ≤ 0.7 mA, ≥ 1 minute Outer conductor Input to Outer conduct Output Leakage current ≤ 0.7 mA, ≥ 1 minute	
	230 VAC RMS, 50/60 Hz	Inner conductor Input to Inner conductor Output Leakage current ≤ 2.0 mA RMS Outer conductor Input to Outer conduct Output Leakage current ≤ 2.0 mA RMS	
Electromagnetic Compatibility ⁽¹⁾ (dB, Min.)	5 - 10	65.0	
	10 - 300	85.0	
	300 - 470	80.0	
	470 - 950	75.0	
	950 - 1218	65.0	
NOTES			
(1) EMC, exceeding Class A acc. to IEC 60728-2			
ORDERING INFORMATION		BLOCK DIAGRAM	
GIS-204C	2-port Galvanic Isolator, 4 dB, DATA 5-1218 MHz, TV 85-1218MHz		

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TELESTE CORPORATION
www.teleste.com

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