

Indoor RF passives

Galvanic Isolator **GIS-204E**

The GIS-204E is a compact isolator offering superior performance in a lightweight and easy to install housing.

GIS-204E features:

- Data-R/TV outputs conforms to IEC 60728-11 & 10 Safety Requirements and Screening Effectiveness to IEC 60728-2.
- 100 % Hi-POT testing carried out in production.
- Blocking capacitors on all output ports for DC/HUM protection.
- PRESS-IN sealing technology with Aluminium lid for corrosion protection.
- Zinc-alloy Tin plated housing.
- F-female ports conforms to IEC 61169-24
- Pull force in use < 50 kgs
- Twist torque in use < 50 kgf.cm (5.1 Nm)
- Net weight per piece 68.5 g

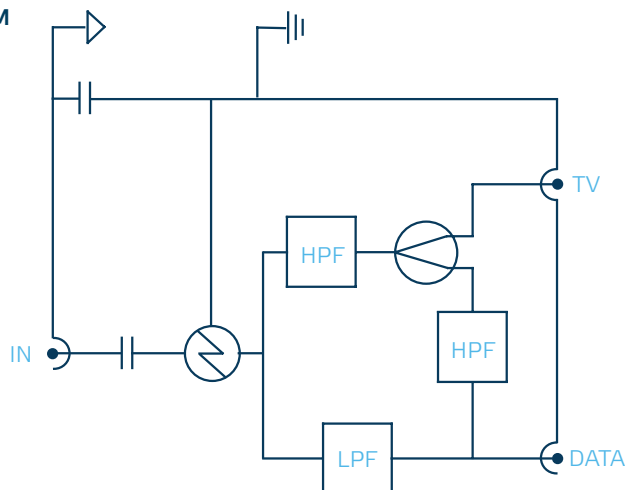
One of Teleste's unique and award winning superior performance passives designed for easy installation and reliability.

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INDOOR RF PASSIVES / GIS-204E

ELECTRICAL SPECIFICATIONS					
INSERTION LOSS (-dB, Max.) - IN to DATA			INSERTION LOSS (-dB, Max.) - IN to TV		
Frequency (MHz)	QA	Typ.	Frequency (MHz)	QA	Typ.
5 - 204	1.2	0.3	5 - 204	40 (Min.)	56
258 - 300	3.4	2.8	258 - 300	5.7	4.7
301 - 1000	4.9	3.9	301 - 1000	4.8	3.8
1001 - 1300	5.0	4.4	1001 - 1300	5.0	4.4
ISOLATION (-dB, Min.) - TV to DATA			RETURN LOSS (-dB, Min.) - IN		
5 - 204	44	56	5 - 204	18	28
258 - 1000	23	32	258 - 300	19	29
1001 - 1300	21	34	301 - 1000	17	24
			1001 - 1300	16	23
RETURN LOSS (-dB, Min.) - DATA			RETURN LOSS (-dB, Min.) - TV		
5 - 204	19	29			
258 - 300	16	20			
301 - 1000	17	24	258 - 1300	16	26
1001 - 1300	15	21			
SCREENING EFFECTIVENESS ¹ (EN50083-2)			GALVANIC ISOLATION		
9 - 10	80		2120 VDC ^{2, 4}	Inner conductor (Input) to Inner conductor (Output)	
11 - 12	85			Outer conductor (Input) to Outer conduct. (Output)	
13 - 300	85				
301 - 470	85		230 VAC ^{3, 5}	Inner conductor (Input) to Inner conductor (Output)	
471 - 1000	75			Outer conductor (Input) to Outer conduct. (Output)	
IMPEDANCE			OPERATING TEMPERATURE		
75 Ω			-20°C - +40°C		
NOTES					
<div>(1) - 5-30 MHz - Coupling Unit Method according IEC 60728-2 - 30-950 MHz - Absorption Clamp Method according IEC-60728-2 sec. 4.4 - 950-1000 MHz - Substitution Method</div> <div>(2) Two carriers (60 & 65 MHz), Out to In @ 120 dBμV, after 10 pulses (25V/1.2μS rise time/50μS fall time) at all ports</div> <div>(3) Two carriers (60 & 65 MHz), Out to In @ 120 dBμV, after 1 pulse (25V/1.2μS rise time/50μS fall time) at all ports</div> <div>(4) IEC 60728-11 & 10 Safety Requirement: 2120 VDC T>=1 minute, I<=0.7 mA</div> <div>(5) IEC 60728-11 & 10 SAFETY Requirement: 230 VAC I<=2.0 mA RMS (5°C to +40°C)</div>					
ORDERING INFORMATION					
GIS-204E		2-way Galvanic isolator 4.4 dB, DATA 5-204/258-1300MHz, TV 258-1300MHz			

BLOCK DIAGRAM



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TELESTE CORPORATION
www.teleste.com

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