



Indoor RF passives

Galvanic Isolators **GIS-204F**

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

Features

- Frequency range up to 1000 MHz
- Outstanding RF performance
- 100% HI-POT test in production
- Press-in sealing technology with Aluminum lid for corrosion protection
- Blocking capacitors on all output ports for DC/HUM protection

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



INDOOR RF PASSIVES / GIS-204F

INSERTION LOSS (dB, Max.) - IN to TVI INSERTION LOSS (dB, Max.) - IN to DMAIN Fequency (MHz) QA/TYP Frequency (MHz) QA/TYP \$5 : 50 \$3 : 50 \$3 : 50 \$3 : 50 BSC : 1000 ISD : 50 \$3 : 50 \$3 : 50 SS : 50 \$1 : 50 : 50 \$3 : 50 \$1 : 50 : 50 SS : 50 \$1 : 50 : 50 \$1 : 50 : 50 \$1 : 50 : 50 SS : 50 : 50 \$1 : 50 : 50 \$1 : 50 : 50 \$1 : 50 : 50 SS : 50 : 50 \$1 : 50 : 50 \$1 : 50 : 50 \$1 : 50 : 50 SS : 50 : 500 \$1 : 50 : 50 \$1 : 50 : 50 \$1 : 50 : 50 SS : 50 : 500 \$1 : 50 : 50 \$1 : 50 : 50 \$1 : 50 : 50 SS : 500 \$1 : 50 : 50 \$1 : 50 : 50 \$1 : 50 : 50 SS : 500 \$1 : 50 : 50 \$1 : 50 : 50 \$1 : 50 : 50 SS : 500 \$1 : 50 : 50 \$1 : 50 : 50 \$1 : 50 : 50 SS : 500 \$1 : 50 : 50 \$1 : 50 : 50 \$1 : 50 : 50 SS : 500 \$1 : 50 : 50 \$1 : 50 : 50 \$1 : 50 : 50 SS : 500	ELECTRICAL SPECIFICATIONS					
9:50 150:100 9:548 5.243 9:548 5.543 2.970 5.150 2.970 5.142 ISD:100 5:50 150:48 150:50 5.142 150:50 140/210 5.473 ISD:100 5:50 150/240 150:50 170/210 180/250 170/210 ISD:100 180/250 170/210 180/250 170/210 180/250 170/210 ISD:100 180/250 170/210 180/250 170/210 180/250 170/210 ISD:100 ISD/250 170/210 180/250 170/210 170/210 ISD:100 ISD/250 150/250 150/250 150/250 150/250 150/250 140/160 140/160 ISD:100 ISD/250 150/250 150/250 150/250 150/250 150/250 140/160 140/160 ISD:100 ISD/250 150/250 150/250 150/250 150/250 150/250 150/250 150/250 ISD/250 150/250 150/250 150/250 150/250 150/250 150/250 150/250 150/250 140/160 ISD:100 ISD/250 150/250 150/250 150/250 150/250 150/250 150/250 150/250 150/250 150/250 ISD:100 ISD/250 150/250 ISD/250 150/250 150/250 150/250 150/250 150/250 150/250 150/250 ISD:100 </th <th>INSERTION LOSS (dB, M</th> <th>ax.) - IN to TV</th> <th></th> <th colspan="2">INSERTION LOSS (dB, Max.) - IN to DATA</th>	INSERTION LOSS (dB, M	ax.) - IN to TV		INSERTION LOSS (dB, Max.) - IN to DATA		
85 · 150 BS2 · 1000 5.2/4.2 S.2/4.3 SS0 · 1500 85 · 150 S.2/4.3 SS0 · 1500 5.2/4.3 SS0 · 1000 5.2/4.3 SS0 · 1000 5.2/4.3 SS0 · 1000 5.0 SS0 · 1000 14.0/16.0 SS0 · 1000 15.0/24.0 SS0 · 1000 14.0/16.0 SS0 · 1000 15.0/24.0 SS0 · 1000 14.0/16.0 SS0 · 1000 14.0/16.0 SS0 · 1000 15.0/24.0 SS0 · 1000 15.0/24.0 SS0 · 1000 16.0/20 SS0 · 1000 16.0/20 SS0 · 1000 16.0/20 SS0 · 1000 16.0/20 SS0 · 1000 16.0	Frequency (MHz)		QA/TYP	Frequency (MHz)	QA/TYP	
5 - 65 85 - 150 150 - 852 85 - 1000 40.0/47.0 14.0/16.0 150 - 650 170/23.0 85 - 150 550 - 1000 5 - 65 18.0/25.0 18.0/23.0 550 - 1000 RETURN LOSS (db, Min) - DATA RETURN LOSS (db, Min) - TV 5 - 65 85 - 150 85 - 150 550 - 1000 15.0/24.0 15.0/22.0 10.000 14.0/15.0	85 - 150 150 - 862		5.2/4.2 5.2/4.3	85 - 150 150 - 550	5.2/3.9 5.1/4.2	
85-150 862-1000 150-150 150-150 180/240 150-150 150-250 170/210 RETURN LOSS (8B, Min.) - DATA RETURN LOSS (8B, Min.) - TV RETURN LOSS (8B, Min.) - TV 85-150 550-1000 150/220 150-150 150-250 150/200 150-170 85-150 550-1000 150/220 150/170 150-170 140/160 140/160 95-150 550-1000 150/220 150/170 150-170 140/160 650-1000 150/220 150/170 150-170 140/160 650-1000 150/170 650-1000 140/160 650-1000 150/170 650-1000 140/160 650-1000 150/170 650-1000 140/160 650-1000 150/170 650-1000 140/160 650-1000 1000 1000 1000 651 10000 10000 10000 10000 8-10 10000 85.0 10000 85.0 75.0 10000 10-300 85.0 10000 85.0 10-500 10-300 8-10 10000 85.0 10000 10000	ISOLATION (dB, Min.) - TV to DATA RETURN LOSS (dB, Min.) - IN					
5 - 65 85 - 150 150 / 22.0 15 0 / 23.0 150 / 650 14 0 / 16.0 14 0 / 16.0 GENERAL SPECIFICATIVE Frequency range (MHz) 5 - 1000 MHz Nominal Impedance 75 0 hm Operating temperature -20 ° to +60 ° C Dimensions (L x W x D) 70.8 x 59 x 20 mm Safety Isolation 2120 VDC Inner conductor Input to Inner conductor Output Leakage current 4 0.7 mA, 21 minute Outer conductor Input to Output conductor Output Leakage current 4 0.7 mA, 21 minute Outer conductor Input to Output conductor Output Leakage current 4 0.7 mA, 21 minute Outer conductor Input to Output conductor Output Leakage current 4 0.7 mA, 21 minute Outer conductor Input to Output conductor Output Leakage current 4 0.7 mA, 21 minute Outer conductor Input to Output conductor Output Leakage current 4 0.7 mA, 21 minute Outer conductor Input to Output conductor Output Leakage current 4 0.7 mA, 21 minute Outer conductor Input to Outer conduct Output Leakage current 4 0.7 mA, 21 minute Outer conductor Input to Outer conduct Output Leakage current 4 0.7 mA, 21 minute Outer conductor Input to Outer conduct Output Leakage current 4 0.7 mA RMS Fleetromagnetic Compatibility III 5 . 8 9 . 0 300 . 770 300	85 - 150 150 - 862		14.0/16.0 19.0/24.0	85 - 150 150 - 650	18.0/24.0 17.0/23.0	
B3 - 150 550 - 1000 150 / 22.0 150 / 250 150 / 150 150 / 150 140 / 16.0 140 / 16.0 CENERAL SPECIFICATION Frequency range (MHz) 5 - 1000 MHz Nominal Impedance 75 0 hm Operating temperature -20 ° to +60 ° C Dimensions (L x W x D) 70.8 × 59 × 20 mm Safety isolation 2120 VDC Inner conductor Input to Inner conductor Output Leakage current \$ 0.7 mA, \$ 1 minute Safety isolation 230 VAC RMS, 50/60 Hz Inner conductor Input to Inner conductor Output Leakage current \$ 2.0 mA RMS Bitectromagnetic Compatibility I ¹⁰ 10 - 300 10 - 300 300 - 470 85.0 80.0 75.0 NOTES ILCK DIAGRAM	RETURN LOSS (dB, Min.) - DATA			RETURN LOSS (dB, Min.) - TV		
Frequency range (MHz) 5 - 100 MHz Nominal Impedance 75 Ohm Operating temperature -20 ° to +60 °C Dimensions (L x W x D) 70.8 x 59 x 20 mm Safety Isolation 2120 VDC Inner conductor Input to Inner conductor Output Leakage current \$ 0.7 mA, 2.1 minute Outer conductor Input to Duter conductor Output Leakage current \$ 2.0 m A RMS 50/60 Hz Inner conductor Input to Duter conductor Output Leakage current \$ 2.0 m A RMS Outer conductor Input to Outer conductor Output Leakage current \$ 2.0 m A RMS Electromagnetic Compatibility '1' 8 - 10 0.3 300 - 470 300 - 470 300 - 470 80.0 80.0 80.0 300 - 470 300 - 470 300 - 470 NOTES Electro DIAGRAM Electro DIAGRAM Electro DIAGRAM	85 - 150 150 - 650		15.0/20.0 15.0/22.0	150 - 650	14.0/16.0	
Operating temperature -20 ° to +60 °C Dimensions (L x W x D) 70.8 x 59 x 20 mm Safety Isolation 2120 VDC Inner conductor Input to Inner conductor Output Leakage current \$ 0.7 mA, 2.1 minute Outer conductor Input to Outer conduct Uput Leakage current \$ 2.0 mA, 8.1 minute Outer conductor Input to Inner conductor Output Leakage current \$ 2.0 mA RMS S0/60 H2 230 VAC RMS, 50/60 H2 Inner conductor Input to Inner conductor Output Leakage current \$ 2.0 mA RMS Outer conductor Input to Under conduct Output Leakage Current \$ 2.0 mA RMS Electromagnetic Compatibility (1) (BEM, exceeding Class A acc. to IEC 60728-2 5 - 8 8 - 10 0.0 85.0 85.0 85.0 100.0 85.0 85.0 85.0 85.0 BLOCK DIAGRAM Unification of the top output Leakage current \$ 2.0 mA RMS Unification of the top output Leakage current \$ 2.0 mA RMS CODERING INFORMATION Difference Top output output conductor Input to Inner conductor Output Leakage Current \$ 2.0 mA RMS	GENERAL SPECIFICATIONS					
Safety Isolation 2120 VDC Inner conductor Input to Inner conductor Output Leakage current \$ 0.7 mA, 2 1 minute Outer conductor Input to Outer conduct Output Leakage current \$ 2.0 mA RMS Safety Isolation 230 VAC RMS, S0/60 Hz Inner conductor Input to Inner conductor Output Leakage current \$ 2.0 mA RMS Electromagnetic Compatibility (n (dB, Min.) S-8 (0.0 ma RMS) 100.0 (0.0 ma RMS) NOTES 80.0 (10 EMC, exceeding Class A acc. to IEC 60728-2 BLOCK DIAGRAM Inter conductor input to Uter conduct Output Leakage current \$ 2.0 mA RMS VICT 0.0 ma RMS Conter conductor Input to Outer conduct Output Leakage current \$ 2.0 mA RMS NOTES 80.0 (10 EMC, exceeding Class A acc. to IEC 60728-2 BLOCK DIAGRAM Inter conductor input to Uter conduct Output Leakage current \$ 2.0 ma RMS OUTE Inter conductor Input to Outer conduct Output Leakage current \$ 2.0 ma RMS DIAGRAM Inter conductor Input to Outer conduct Output Leakage current \$ 2.0 ma RMS					75 Ohm	
Safety Isolation 210 VUC Outer conductor input to Outer conduct Output Leakage current \$ 0.7 mA, \$ 1 minute 230 VAC RMS, 50/60 Hz Inner conductor input to Outer conduct Output Leakage current \$ 2.0 mA RMS Outer conductor input to Outer conduct Output Leakage current \$ 2.0 mA RMS Electromagnetic Compatibility III (dB, Min.) Solido III Conductor input to Outer conduct Output Leakage current \$ 2.0 mA RMS Outer conductor input to Outer conduct Output Leakage current \$ 2.0 mA RMS Outer conductor input to Outer conduct Output Leakage current \$ 2.0 mA RMS Outer conductor input to Outer conduct Output Leakage current \$ 2.0 mA RMS Outer conductor input to Outer conduct Output Leakage current \$ 2.0 mA RMS Outer conductor input to Outer conduct Output Leakage current \$ 2.0 mA RMS Outer conductor input to Outer conduct Output Leakage current \$ 2.0 mA RMS Outer conductor input to Outer conduct Output Leakage current \$ 2.0 mA RMS Outer conductor input to Outer conduct Output Leakage current \$ 0.0 mA RMS Outer conductor input to Outer conduct Output Leakage current \$ 2.0 mA RMS Outer conductor input to Outer	Operating temperature	-20 º to				
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 Outer conduct Output Leakage current \$ 2.0 mA RMS Electromagnetic Compatibility (°) (dB, Min.) 5 - 8 - 10 - 10 - 300 - 300 - 470 - 1000 100.0 - 85.0 - 80.0 - 85.0 - 80.0 - 75.0 NOTES ELOCK DIAGRAM Image: Compatibility (°) (BC, exceeding Class A acc. to IEC 60728-2 ELOCK DIAGRAM Image: Compatibility (V)		2120 VDC				
Electromagnetic Compatibility (*) (dB, Min.) 8 - 10 10 - 300 300 - 470 470 - 1000 80.0 85.0 80.0 75.0 NOTES (1) EMC, exceeding Class A acc. to IEC 60728-2 ELOCK DIAGRAM	Sarety Isolation					
(1) EMC, exceeding Class A acc. to IEC 60728-2 BLOCK DIAGRAM			8 - 10 10 - 300 300 - 470		80.0 85.0 80.0	
BLOCK DIAGRAM	NOTES					
N V V V V V V V V V V V V V V V V V V V	(1) EMC, exceeding Class A acc. to IEC 60728-2					
V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V	BLOCK DIAGRAM					
GIS-204F 2-way Galvanic isolator 4.3dB, DATA 5-65/85-1000MHz, TV 85-1000MHz	ORDERING INFORMATIC	DN				
	GIS-204F	2-way Galvanic isolator	4.3dB, DATA 5-65/85-100	00MHz, TV 85-1000MHz		



TELESTE CORPORATION

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