

GLI 2000 Series

Heavy Duty Ground Loop Inhibitors

GLI 2000 2BNC



GLI 2000 5BNC

DESCRIPTION

The Extron **GLI 2000 Series** of heavy duty Ground Loop Inhibitors offer reliable, simple solutions for A/V system ground loop problems. The GLI 2000 Series' compact design and rugged construction make them ideal solutions for staging applications where mobility and ease of handling are required. Each model comes standard with protective rails which guard connectors from damage. This flexibility in design allows them to be mounted virtually anywhere including in a rack or road case, near the projector, or in/under furniture.

The GLI 2000 series is available in two models: a five-BNC version for all signal types from RGBHV down to composite, and two-BNC version for S-video and composite video. GLI 2000 Series products are able to handle even the highest frequency signals and various cable lengths without signal degradation.

GLI 2000 Series products are designed for applications that experience ground loop and interference problems, such as those found in convention centers, hotels, or other large buildings. These problems occur when separate grounds, carrying different loads, are "looped" together by sources and displays within an A/V system, resulting in "hum" bars (50 or 60-cycle noise). "Hum" bars can be described as thick, horizontal background bars rolling vertically through the displayed image. This problem is most common when a projector and its signal source(s) are powered from two different power-ground systems that are separated by significant distance. One solution is to have all system components powered from the same ground, but this is not always a possible or cost-effective solution. The GLI 2000 Series can save hours of troubleshooting and unnecessary rewiring by providing video hum suppression for systems where it is impractical to connect all equipment to the same ground—virtually eliminating "hum" bars, common-mode noise, and other visible effects caused by improper grounding in video systems.

The GLI 2000 family of products uses proven passive technology and high performance components that provide high core saturation voltage capabilities for even the worst ground loop problems. GLI 2000 Series products do not require an external power supply as they are non-powered. This enables them to be added anywhere in a system. By using innovative technology, the GLI 2000 Series is effective in solving the majority of video grounding problems.

FEATURES

- Proven and reliable passive technology
- High core saturation voltage effectively eliminates even strong "hum" bars and common-mode noise caused by ground loops

- No external power required for easy integration
- Rugged, rack-mountable, metal enclosure with protective guard rails
- 425 MHz (-3 dB) RGB video bandwidth (GLI 2000 5BNC)
- 100 MHz (-3 dB) video bandwidth (GLI 2000 2BNC)
- 10-2000 kHz horizontal frequency range
- NTSC and PAL video compatible
- GLI 2000 compatible with RGBHV through composite signals
- GLI 2000 compatible with S-video and composite video

MODEL

GLI 2000 5BNC
GLI 2000 2BNC

PART

60-601-01
60-603-01

OPTIONAL ACCESSORIES

BNCM-RCAF adapter (Qty. 10)100-229-01 (page 530)
SVHSM-BNCM adapter26-353-01 (page 532)
SY 15 HDM-RGBHVM 6' (1.83 m)26-533-02 (page 526)
2U Universal Rack Shelf Kit60-032-01 (page 555)

SPECIFICATIONS

VIDEO

Gain	Unity
Core saturation voltage	>10V
NOTE: See the Extron Web site for details on core saturation test conditions.	
Bandwidth	
GLI 2000 5BNC.....	>425 MHz (-3 dB) for RGB, >200 MHz (-3 dB) for HV
GLI 2000 2BNC.....	>100 MHz (-3 dB)
CMRR	
GLI 2000 5BNC.....	>58 dB @ 50 Hz or 60 Hz
GLI 2000 2BNC.....	>53 dB @ 50 Hz or 60 Hz

VIDEO INPUT

Number/signal type	
GLI 2000 5BNC,	1 RGBHV, RGBS, RGsB, RsGsBs
GLI 2000 2BNC.....	1 S-video or 2 composite video
Connectors	
GLI 2000 5BNC	5 female BNC
GLI 2000 2BNC.....	2 female BNC
Nominal level.....	1 Vp-p for Y of S-video, and for composite video 0.7 Vp-p for RGB 0.3 Vp-p for C of S-video
Minimum/maximum levels	Analog: -15V to +15 Vp-p with no offset
Impedance	75 ohms
Horizontal frequency	10 kHz to 2000 kHz
Vertical frequency	15 Hz to 180 Hz
Return loss	
GLI 2000 5BNC.....	<-27 dB @ 1 MHz to 100 MHz
GLI 2000 2BNC.....	<-28 dB @ 1 MHz to 100 MHz

VIDEO OUTPUT

GLI 2000 5BNC,	1 VGA-UXGA RGBHV, RGBS, RGsB, RsGsBs
GLI 2000 2BNC.....	1 S-video or 2 composite video
Connectors	
GLI 2000 5BNC.....	5 female BNC
GLI 2000 2BNC.....	2 female BNC
Nominal level.....	1 Vp-p for Y of S-video, and for composite video 0.7 Vp-p for RGB 0.3 Vp-p for C of S-video
Minimum/maximum levels	Analog: -15V to +15 Vp-p with no offset
Impedance	75 ohms
Horizontal frequency	10 kHz to 2000 kHz
Vertical frequency	15 Hz to 180 Hz
Return loss	<-30 dB @ 0 to 100 MHz
DC offset.....	±10 mV maximum

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GLI 2000 Series (continued)...

SYNC — GLI 2000 5BNC, UNLESS OTHERWISE INDICATED

Input type	RGBHV, RGBS, RGsB, RsGsBs
Output type	RGBHV, RGBS, RGsB, RsGsBs
Standards (GLI 2000 2BNC)	NTSC 3.58, NTSC 4.43, PAL, SECAM
Input level	-15 V to +15 Vp-p
Output level	-15 V to +15 Vp-p, unterminated
Input impedance	75 ohms
Output impedance	75 ohms
Max. propagation delay	
GLI 2000 2BNC	52 ns
Other models	26 ns
Polarity	Positive or negative (follows input)

GENERAL

Power	Not powered
Rack mount	Yes, with optional 2U rack shelf, part #60-032-01
Enclosure type	Metal
Enclosure dimensions	
GLI 2000 5BNC,	3.4" H x 8.6" W x 5" D (2U high, half rack width)
	8.6 cm H x 21.8 cm W x 12.7 cm D
GLI 2000 2BNC	3.4" H x 4.3" W x 5" D (2U high, one quarter rack width)
	8.6 cm H x 10.9 cm W x 12.7 cm D
	(Depth excludes connectors/guards and handles.)
Product weight	
GLI 2000 2BNC	3.1 lbs (1.4 kg)
GLI 2000 5BNC	6.2 lbs (2.8 kg)
Shipping weight	
GLI 2000 2BNC	5 lbs (3 kg)
GLI 2000 5BNC	10 lbs (5 kg)
Listings/Compliances	UL, CUL, CE
Warranty	3 years parts and labor

APPLICATION

