

Date: 04.05.2010

## Optical video isolator 10Hz-10MHz

Reliable super flat response video-isolator VOI-10M-01 provides for excellent isolation of video system parts under different potentials.

### Key features:

- Flat transfer function
- Wideband
- Low power consumption
- High isolation
- Compact and reliable
- Power supply activity LED



### Application areas:

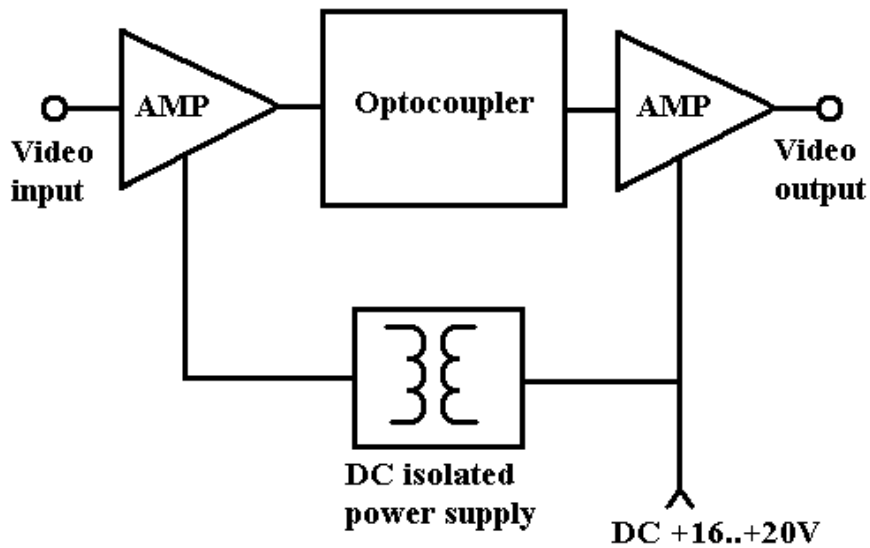
- Video survey services
- Private house video systems
- CCTV

### General description:

VOI-10M-01 is intended for using primarily in CCTV application such as security, manufacturing, and display. Thanks to very good isolation VOI-10M-01 can sustain very high noise voltages without degradation. Most video signal sections are AC-coupled. 10Hz-10MHz signal can pass through VOI-10M-01. Video isolator can be used in CCTV applications where ground loop problems are. VOI-10M-01 protects system against ground potential differences between sections of video system. Built-in indication LED shows activity of the power supply input.

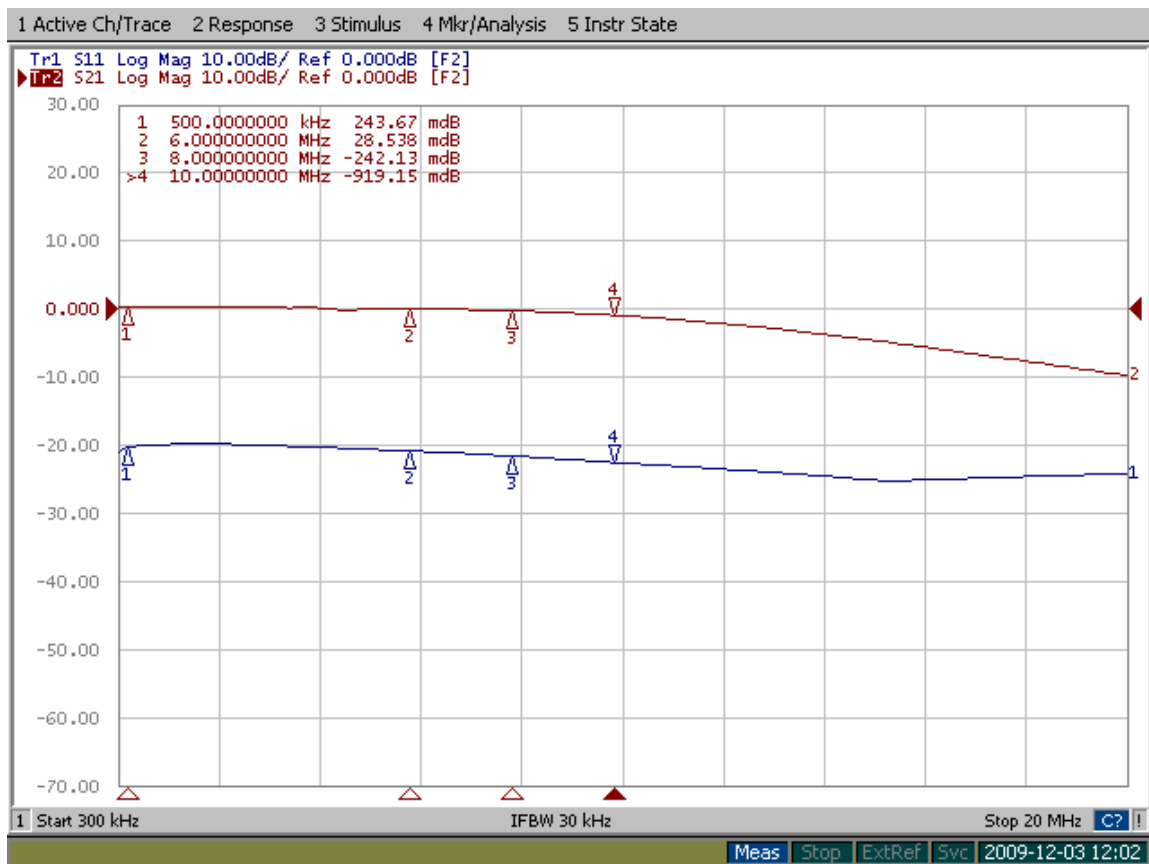
### Technical specifications:

Parameter	Specification
Bandwidth	10Hz-10MHz
Gain (S21)	0dB (1V <sub>pp</sub> IN/OUT)
Flatness	±0.7dB
Input/output return loss	>20dB
Max. rated voltage (IN/OUT)	1000V
Power supply voltage (DC IN)	+16...+20V
Current consumption	60...70mA
Built-in DC overvoltage protection	+33V
Impedance	75Ω
Video connector type	BNC-female
DC connector type	2.1mm DC-jack (positive in centre)
Max. dimensions	105x44x20mm



VOI-10M-01 block-diagram

Before using VOI-10M-01 please watch over block-diagram given above. Installing VOI-10M-01 make sure that video input ground and DC-input/video output ground are different.



Example of VOI-10M-01 input return loss (-S11) and transmission (S21) curves.