

LEN L4KGI03 VIDEO ISOLATOR Galvanic video and ground path isolator, high voltage, 4K/12G UHD SDI



LEN VIDEO FILTERS - MEDICAL GRADE - SD, HD, 3G, 4K/12G SDI ground isolation

These LEN ground isolators use broadband high-pass filters to provide complete galvanic isolation of DC currents between two pieces of equipment, whilst permitting the full bandwidth of the SDI signal to pass, thus avoiding problems of signal distortion and operator shocks caused by a voltage difference. This method out-performs broadband transformers for SDI signals. Both signal and ground paths between equipment are isolated, there is no distortion of the signal. They are suitable for ASI format.

These medical grade isolators offer a higher breakdown voltage for medical grade applications, and are available both constructed in ABS boxes with mounting flanges and as 'barrel' versions, with or without a mounting flange. For non-medical grade isolators see [LEN VIDEO FILTERS - SD, HD, 3G, 4K/12G SDI ground isolation](#).

Common specifications are as follows. Input and output impedance: 75 ohms. Return loss: Better than 20dB.

Model	Bandwidth(1)	Breakdown Voltage(1)
LHDF03	0.5 MHz to 1485 MHz, - 0.25dB	4kV
L3GF03	0.5 MHz to 3000 MHz, - 0.25dB	4kV
LHDGI03	0.5 MHz to 1485 MHz, - 0.25dB	4kV
L3GGI03	0.5 MHz to 3000 MHz, - 0.25dB	4kV
L4KGI03	0.5 MHz to 12000 MHz, - 0.25dB	4kV

Note 1: These are minimum values.

High Breakdown Voltage, Encapsulated Enclosure – [L3GF03](#), [LHDF03](#)

[L3GF03](#) may be used with 3G, HD or SD SDI signals while the [LHDF03](#) may be used with HD or SD SDI. These have a very high breakdown voltage, as required for medical grade applications. They are constructed in ABS boxes with mounting flanges, fitted with two female BNC connectors.

Dimensions: 50 x 35 x 15 (l x w x h) mm excluding mounting flanges, 68mm length including flanges. Weight: 32g.

High Breakdown Voltage, In-line 'Barrel' Type, with mounting flange for through panel fitment – [L4KGI03](#), [L3GGI03](#), [LHDGI03](#)

L4KGI03 is for use with full 12G/4K UHD SDI video and all lower standards including 6G, 3G, HD and SD SDI. [L3GGI03](#) may be used with 3G, HD or SD SDI signals while the [LHDGI03](#) may be used with HD or SD SDI. These have a very high breakdown voltage, as required for medical grade applications. They are built in cylindrical plastic (for isolation) enclosures, fitted with a BNC connector at each end. An industry-standard size mounting flange is fitted at one end.

Dimensions: 30 x 20 (l x diameter) mm, mounting flange 31 x 26 mm. Weight: 37g.

Optional accessories: [LMPG01](#) rack frame is a 1U 19-inch full width panel, finished in black, punched to take sixteen isolators mounted from the rear by means of the mounting flanges, so that the BNC connectors are on either side of the rack. [LMPG02](#) rack frame is a 1U 19-inch half width panel, punched to take eight isolators, mounted in the same way as the full width panel.