

GALVANIC ISOLATORS [GxV] *Cable Products, Drop Passives*

DESCRIPTION

Lindsay's galvanic isolator series are used to separate the subscriber's network equipment from the CATV network system as well as protect the network equipment from electrical hazards (ie. voltage surges or lightning). It is an effective and practical solution to prevent various types of hazardous surges for Customer Premise Equipment (CPE).

FEATURES

- Class A - CENELEC EN50083-2 (Screening Effectiveness)
- EN/IEC 60728-11:2010 (Safety Requirements)
- 5-1218 MHz Bandwidth
- 1, 2 or 3 Port Splitter Design
- Protection for Network Equipment against Power Surges
- Superior Isolation and Return Loss for Return Path
- 6 kV Surge Protection
- Standard Contact Pins
- Compact Design with Zinc Alloy Die Cast Housing & Tin Plated Soldered Back
- Two Ground Screws (Available)
- CE & RoHS Compliant



GENERAL SPECIFICATIONS

Surge Withstand Capability:

Fwd IN 6kV 3kA, 8/20us Combo Wave IEEE 587 (C62.41-1991), Category B3 Standard

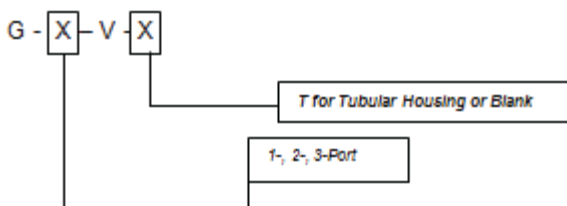
Fwd OUT 6kV 200A, 0.5-1000kHz, Ring Wave IEEE 587 (C62.41-1991), Category A3 Standard

F Connector: SCTE Compliant IPS-SP 400

Operation Temperature: -40 °C to 60 °C (-40 °F to 140 °F)

RFI Shielding: -120 dB

ORDERING INFORMATION



Model Number	Inner Box	Standard Carton	Carton Weight
G1V	10 pcs	300 pcs	20kg / 44 lbs
G2V	10 pcs	300 pcs	21kg / 46 lbs
G3V	10 pcs	300 pcs	22kg / 48 lbs
G1V-T	10 pcs	300 pcs	20kg / 44 lbs

DROP PASSIVES - HGXV

Insertion Loss (dB) Frequency	G1V		G2V		G3V				G1V-T		
	Min	Typ	Min	Typ	Min	Typ	Min	Typ	Min	Typ	
5-10 MHz	0.1	0.6	3.3	3.7	3.2	3.7	6.8	6.9	0.1	0.6	dB
11-40 MHz	0.1	0.4	3.3	3.9	3.3	3.9	6.6	6.9	0.1	0.4	dB
41-470 MHz	0.2	0.4	3.3	3.9	3.3	3.9	6.8	7.0	0.2	0.4	dB
471-862 MHz	0.4	0.7	4.0	4.3	3.9	4.3	7.0	7.5	0.4	0.7	dB
863-1002 MHz	0.4	0.7	4.3	4.4	4.2	4.4	7.8	8.0	0.4	0.7	dB
1003-1218 MHz	0.5	0.7	4.5	5.2	4.5	5.2	8.0	8.3	0.5	0.7	dB

Return Loss (dB) Frequency	G1V		G2V		G3V		G1V-T		
	Min	Typ	Min	Typ	Min	Typ	Min	Typ	
5-10 MHz	18	20	18	20	18	20	18	20	dB
11-470 MHz	18	20	18	20	18	20	18	20	dB
471-862 MHz	18	20	18	20	18	20	18	20	dB
863-1002 MHz	18	20	18	20	18	20	18	20	dB
1003-1218 MHz	16	18	16	18	16	18	16	18	dB

Screening Effectiveness (dB)*	G1V	G2V	G3V	G1V-T	
5-300 MHz	85	85	85	85	dB
300-470 MHz	80	80	80	80	dB
470-950 MHz	75	75	75	75	dB
950-1218 MHz	75	75	75	75	dB

Isolation Out (dB) Frequency	G1V		G2V		G3V		G1V-T		
	Min	Typ	Min	Typ	Min	Typ	Min	Typ	
5-10 MHz	x	x	20	25	20	25	x	x	dB
11-470 MHz	x	x	20	25	20	25	x	x	dB
471-862 MHz	x	x	22	25	22	25	x	x	dB
863-1002 MHz	x	x	20	22	20	22	x	x	dB
1003-1218 MHz	x	x	20	22	20	22	x	x	dB

Galvanic Isolation	Ports	Max
2120 VDC***	Inner Conductor (Input) to Inner Conductor (Output)	0.7 mA RMS
2120 VDC***	Outer Conductor (Input) to Outer Conductor (Output)	0.7 mA RMS
230 VAC****	Inner Conductor (Input) to Inner Conductor (Output)	2 mA RMS
230 VAC****	Outer Conductor (Input) to Outer Conductor (Output)	2 mA RMS

Notes

- * 5-30 MHz (Transfer Impedance Method according IEC 60728-2)
30-1218 MHz (Absorption Clamp Method according IEC-60728-2 Sec 4.4)
Two carriers (60 & 65 MHz), Out to In, @ 120 dBuV, before surge
- ** Two carriers (60 & 65 MHz), Out to In, @ 120 dBuV, after 10 pulses (25 V/1.2 uS rise time/500 uS fall time) at all ports
Two carriers (60 & 65 MHz), Out to In, @ 120 dBuV, after 1 pulse (1 KV/1.2 uS rise time/500 uS fall time) at all ports
- *** IEC-60728-11/10 Safety Requirements: 2120 VDC \geq 1minute, I = \leq 0.7 mA
- **** IEC-60728-11/10 Safety Requirements: 230 VAC, I = \leq 8.0 mA (0 °C to 25 °C)

Specifications subject to change without prior notice
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www.lindsaybroadbandinc.com