

1.2 GHz HIGH PASS GALVANIC ISOLATORS [HGxV-x]

Cable Products, Drop Passives

TaiTin

Description

Taikan'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

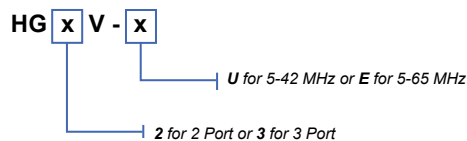
- Class A - CENELEC EN50083-2 (Screening Effectiveness)
- EN/IEC 60728-11:2010 (Safety Requirements)
- 5-1218 MHz Bandwidth
- 2 or 3 Port Design with High Pass Filter
- Protection for Network Equipment Against Power Surges
- Superior Isolation and Return Loss for Return Path
- 2 kV DC Double Isolation 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

Voltage Isolation:	2 kV DC
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
HG2V-x	30 pcs	300 pcs	21kg / 46 lbs
HG3V-x	30 pcs	300 pcs	22kg / 48 lbs



		HG2V-x			HG3V-x									
Insertion Loss TV		Input Port	TV HP Port	Data Output Port	Input Port	TV HP Port	Data Output Port							
Frequency	5-65 MHz	x	40.0	3.5	x	40.0	3.5	dB						
	85-110 MHz	x	5.0	3.8	x	8.2	3.8	dB						
	111-500 MHz	x	3.8	3.8	x	7.0	3.8	dB						
	501-860 MHz	x	4.2	4.2	x	7.8	4.2	dB						
	861-1002 MHz	x	4.5	4.5	x	8.0	4.5	dB						
	1003-1218 MHz	x	5.2	5.2	x	8.8	5.2	dB						
Input/Output Return Loss		Min	Typ	Min	Typ	Min	Typ	Min	Typ					
Frequency	5-15 MHz	16	18	x	x	18	20	16	18	x	x	18	20	dB
	16-65 MHz	16	18	x	x	18	20	16	18	x	x	18	20	dB
	85-500 MHz	16	18	16	18	18	20	16	18	16	18	18	20	dB
	501-860 MHz	16	18	16	18	16	18	16	18	16	18	16	18	dB
	861-1002 MHz	16	18	16	18	16	18	16	18	16	18	16	18	dB
	1003-1218 MHz	16	18	16	18	16	18	16	18	16	18	16	18	dB
Isolation Out to Out		Min		Typ		Min		Typ		Min	Typ			
Frequency	5-15 MHz	45		50		45		50		x	x	dB		
	16-65 MHz	45		50		45		50		x	x	dB		
	85-500 MHz	22		25		22		25		22	25	dB		
	501-860 MHz	22		25		22		25		22	25	dB		
	861-1002 MHz	22		25		22		25		22	25	dB		
	1003-1218 MHz	20		25		20		25		20	25	dB		
Screening Effectiveness*		Typ			Typ									
Frequency	5-10 MHz	85			85			dB						
	10-12 MHz	85			85			dB						
	12-300 MHz	85			85			dB						
	301-470 MHz	80			80			dB						
	471-1002 MHz	75			75			dB						
	1003-1218 MHz	75			75			dB						
Intermodulation p+q**		Typ			Typ									
After 25V Surge		-110			-110			dB						
After 1KV Surge		-110			-110			dB						
Galvanic Isolation					Max									
2120 VDC***	Inner Conductor (Input Port) to Inner Conductor (Output Port)				0.7 mA RMS									
2120 VDC***	Outer Conductor (Input Port) to Outer Conductor (Output Port)				0.7 mA RMS									
230 VAC****	Inner Conductor (Input Port) to Inner Conductor (Output Port)				2.0 mA RMS									
230 VAC****	Outer Conductor (Input Port) to Outer Conductor (Output Port)				2.0 mA RMS									

Notes:

- * 5-30 MHz (Transfer Impedance Method according EN-60728-2)
- 30-1218 MHz (Absorption Clamp Method according EN-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
- *** EN-60728-11/10 Safety Requirements: 2120 VDC ≥ 1minute, I = ≤ 0.7 mA
- **** EN-60728-11/10 Safety Requirements: 230 VAC, I = ≤ 2.0 mA (0 °C to 25 °C)