

1.2 GHz HIGH PASS GALVANIC ISOLATORS [HGxV-x] **Taikan**

Cable Products, Drop Passives

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

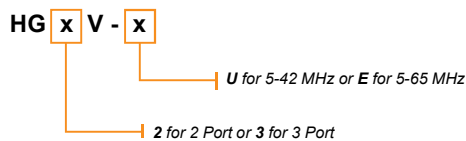
- Class A - CENELEC EN50083-2 (Screening Effectiveness)
- EN/IEC 60728-11:2010 (Safety Requirements)
- 5-1218 MHz Bandwidth
- 2 or 3 Port Design with High Pass Filter
- Protection for Network Equipment Against Power Surges
- Superior Isolation and Return Loss for Return Path
- 2 kV DC Double Isolation 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						
	110-500 MHz	x	3.8	3.8	x	7.0	3.8	dB						
	500-860 MHz	x	4.2	4.2	x	7.8	4.2	dB						
	860-1002 MHz	x	4.5	4.5	x	8.0	4.5	dB						
	1002-1218 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
	15-65 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
	500-860 MHz	16	18	16	18	16	18	16	18	16	18	16	18	dB
	860-1002 MHz	16	18	16	18	16	18	16	18	16	18	16	18	dB
	1002-1218 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			dB				
	15-65 MHz		45	50		45	50			dB				
	85-500 MHz		22	25		22	25			dB				
	500-860 MHz		22	25		22	25			dB				
	860-1002 MHz		22	25		22	25			dB				
	1002-1218 MHz		20	25		20	25			dB				
Screening Effectiveness*			Typ		Typ									
Frequency	5-10 MHz		85		85					dB				
	10-300 MHz		85		85					dB				
	300-470 MHz		80		80					dB				
	470-1002 MHz		75		75					dB				
	1002-1218 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)