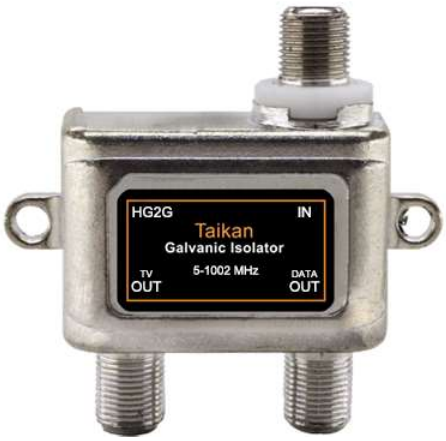
1 GHz HIGH PASS GALVANIC ISOLATORS [HGxG-x]

Cable Products, Drop Passives

Taikan

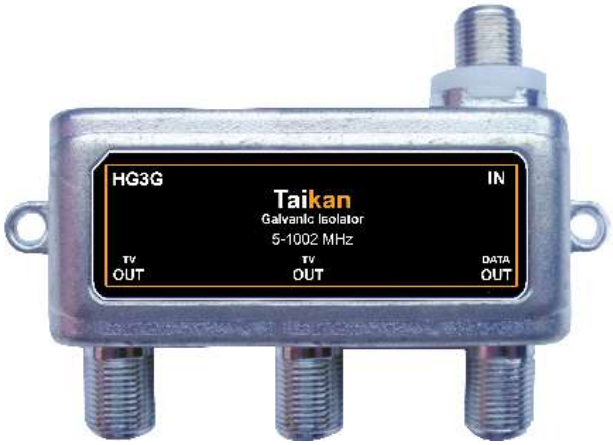
Description

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)
· 5-1002 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

HG [x] G - [x]

U *for 5-42 MHz or* ***E*** *for 5-65 MHz*

2 *for 2 Port or* ***3*** *for 3 Port*

Model Number	*Inner Box*	*Standard Carton*	*Carton Weight*
HG2G-x	30 pcs	300 pcs	21kg / 46 lbs
HG3G-x	30 pcs	300 pcs	22kg / 48 lbs

CE RoHS compliant

919 E. 29th St. Lawrence, KS USA 66046 // Phone:1-785-841-5538 // sales@taikan.com // www.taikan.com

Drop Passives - HGxG-x

Insertion Loss TV

Frequency	HG2G-x Input Port	HG2G-x TV HP Port	HG2G-x Data Output Port	HG3G-x Input Port	HG3G-x TV HP Port	HG3G-x Data Output Port	
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

Input/Output Return Loss

Frequency	HG2G-x Input Port Min	HG2G-x Input Port Typ	HG2G-x TV HP Port Min	HG2G-x TV HP Port Typ	HG2G-x Data Output Port Min	HG2G-x Data Output Port Typ	HG3G-x Input Port Min	HG3G-x Input Port Typ	HG3G-x TV HP Port Min	HG3G-x TV HP Port Typ	HG3G-x Data Output Port Min	HG3G-x Data Output Port Typ	
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

Isolation Out to Out

Frequency	HG2G-x Min	HG2G-x Typ	HG3G-x Min	HG3G-x Typ	HG3G-x Min	HG3G-x Typ	
5-15 MHz	45	50	45	50			dB
15-65 MHz	45	50	45	50			dB
85-500 MHz	22	22	22	25			dB
500-860 MHz	20	22	22	25			dB
860-1002 MHz	20	22	22	25			dB

Screening Effectiveness*

Frequency	HG2G-x Typ	HG3G-x Typ	
5-10 MHz	85	85	dB
10-12 MHz	85	85	dB
12-300 MHz	85	85	dB
300-470 MHz	80	80	dB
470-1002 MHz	75	75	dB

Intermodulation p+q**

	HG2G-x Max	HG3G-x Max	
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)
30-1002 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)