

GALVANIC ISOLATORS [GxV]

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 (i.e. voltage surges or lightning).

It is an effective and practical solution to prevent various types of hazardous surges from damaging Customer Premise Equipment (CPE).

Features

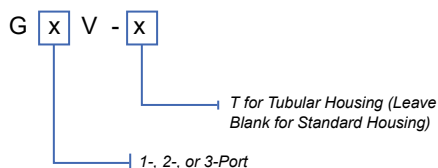
- Class A - CENELEC EN50083-2 (Screening Effectiveness)
- EN/IEC 60728-11:2010 (Safety Requirements)
- 5-1218 MHz Bandwidth
- 1-, 2-, and 3-Port Splitter Design
- Protection for Subscriber's Premise Network Equipment Against Power Surges and Variabilities in Local Currents
- Superior Isolation and Return 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 to 60 °C (-40 to 140 °F)
RFI Shielding:	-120 dB

Ordering Information



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



		G1V One Port		G2V Two Port		G3V Three Port				G1V-T One Port		
		Typ	Max	Typ	Max	Typ	Max	Typ	Max	Typ	Max	
Frequency	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

		Min		Typ		Min		Typ		Min		Typ		
		Min	Typ	Min	Typ	Min	Typ	Min	Typ	Min	Typ			
Frequency	5-10 MHz	18	20	18	20	18	20	18	20	18	20	18	20	dB
	11-470 MHz	18	20	18	20	18	20	18	20	18	20	18	20	dB
	471-862 MHz	18	20	18	20	18	20	18	20	18	20	18	20	dB
	863-1002 MHz	18	20	18	20	18	20	18	20	18	20	18	20	dB
	1003-1218 MHz	16	18	16	18	16	18	16	18	16	18	16	18	dB

		Typ		Min		Typ		Min		Typ		
		Typ	Min	Typ	Min	Typ	Min	Typ	Min			
Frequency	5-10 MHz	x	20	25	20	25	x	20	25	x	20	dB
	11-470 MHz	x	20	25	20	25	x	20	25	x	20	dB
	471-862 MHz	x	22	25	22	25	x	22	25	x	22	dB
	863-1002 MHz	x	22	22	20	22	x	22	22	x	22	dB
	1003-1218 MHz	x	20	22	20	22	x	20	22	x	20	dB

		Typ		Typ		Typ		Typ		
		Typ	Min	Typ	Min	Typ	Min	Typ	Min	
Frequency	5-10 MHz	85	85	85	85	85	85	85	85	dB
	10-12 MHz	85	85	85	85	85	85	85	85	dB
	12-300 MHz	85	85	85	85	85	85	85	85	dB
	301-470 MHz	80	80	80	80	80	80	80	80	dB
	471-1002 MHz	75	75	75	75	75	75	75	75	dB
	1003-1218 MHz	75	75	75	75	75	75	75	75	dB

		Max		Max		Max		Max		
		Max	Min	Max	Min	Max	Min	Max	Min	
After 25 V Surge		-120	-110	-110	-110	-120	-110	-120	-110	dB
After 1 kV Surge		-120	-110	-110	-110	-120	-110	-120	-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), Output to Input, @ 120dBuV, before surge
 - ** Two carriers (60 & 65 MHz), Output to Input, @ 120 dBuV, after 10 pulses (25 V/1.2 uS rise time/500 uS fall time) at all ports
 - Two carriers (60 & 65 MHz), Output to Input, @ 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 to 25 °C)