1 GHZ TUBULAR GALVANIC ISOLATOR [G1G-T]

Cable Products, Drop Passives

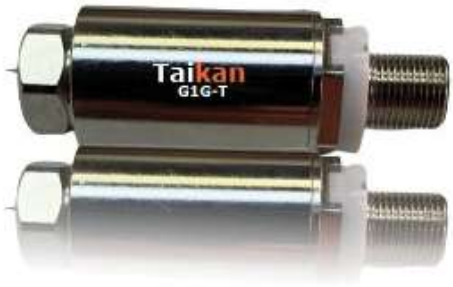
Taikan

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 (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



- Superior Screening Effectiveness
- EN/IEC 60728-11:2010 (Safety Requirements)
- 5-1000 MHz Bandwidth
- 1-Port Tubular 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, Zinc Alloy
- 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:	-125 dB

Ordering Information

G 1 G - T

***T** for Tubular Housing*

***1**-Port*

Model Number	*Inner Box*	*Standard Carton*	*Carton Weight*
G1G-T	30 pcs	300 pcs	20 kg / 44 lbs

CE RoHS compliant

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

Galvanic Isolator - G1G-T

Insertion Loss

Frequency	G1G-T Typ	G1G-T Max	
5-12 MHz	0.2	0.4	dB
12-30 MHz	0.2	0.4	dB
30-300 MHz	0.2	0.4	dB
300-470 MHz	0.2	0.4	dB
470-1000 MHz	0.2	0.4	dB

Input/Output Return Loss

Frequency	Min	
5-12 MHz	20	dB
12-30 MHz	20	dB
30-300 MHz	20	dB
300-470 MHz	20	dB
470-1000 MHz	20	dB

Screening Effectiveness

Frequency	Min	
5-10 MHz	60	dB
10-300 MHz	85	dB
300-470 MHz	80	dB
470-950 MHz	75	dB
950-1000 MHz	70	dB

Intermodulation p+q**

	Max	
After 25 V Surge	-125	dB
After 1 kV Surge	-125	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:

	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 ≥ 1 minute, I = ≤ 0.7 mA
****	EN-60728-11/10 Safety Requirements: 230 VAC, I = ≤ 2.0 mA (0 to 25 °C)