

# 2 GHZ TUBULAR GALVANIC ISOLATOR [G1X-T]

Cable Products, Drop Passives

**Taikan**  
ESTD. 1973

## 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

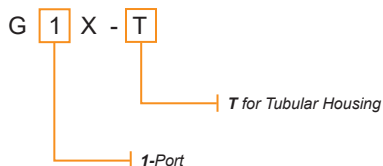
- Class A - CENELEC EN50083-2 (Screening Effectiveness)
- EN/IEC 60728-11:2010 (Safety Requirements)
- 5-2000 MHz Bandwidth
- 1-Port Tubular Design
- Protection for Subscriber's Premise Network Equipment Against Power Surges and Variabilities in Local Currents
- Superior Isolation and Return Loss for Return Path
- 2 kV DC Double Isolation Protection
- IEEE C62.41-1991 Category A3 Ring Wave, 6kV, 200A on all ports
- Standard Contact Pins
- Compact Design, Zinc Alloy Cast Nickel Plated
- 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



Model Number	Inner Box	Standard Carton	Carton Weight
G1X-T	30 pcs	300 pcs	20 kg / 44 lbs



**Insertion Loss****G1X-T**

	<b>Typ</b>	<b>Max</b>	
5-12 MHz	0.4	0.6	dB
12-30 MHz	0.2	0.4	dB
30-300 MHz	0.2	0.4	dB
300-470 MHz	0.3	0.5	dB
470-1006 MHz	0.6	0.8	dB
1006-1700 MHz	0.8	1.1	dB
1700-2000 MHz	1.0	1.4	dB

Frequency

**Input/Output Return Loss****Min**

5-12 MHz	16	dB
12-30 MHz	20	dB
30-300 MHz	20	dB
300-470 MHz	18	dB
470-1006 MHz	18	dB
1006-1700 MHz	14	dB
1700-2000 MHz	12	dB

Frequency

**Screening Effectiveness\*****Min**

5-300 MHz	85	dB
300-470 MHz	80	dB
470-950 MHz	75	dB
950-1218 MHz	70	dB
1218-2000 MHz	70	dB

Frequency

**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:**

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