

- Single output isolator
- 1.2 GHz
- Modem Safe™ surge protection and intermodulation reduction solution
- CPD Safe™ - white bronze plated, zinc diecast housing and tin-nickel plated, machined brass input connector with silver plated F-inner spring
- Excellent RF performance
- Exceeds Class A+ ingress protection (EN50083-2)
- Low insertion loss
- Low leakage current
- Compact design



Overview

Isolators (frequently referred to as system outlets) are used to separate the in-home installation or subscriber equipment from the CATV network. They prevent hazardous voltages from being transferred to in-home installations.

Technetix supplies two main types of isolator - fully and semi-isolated system outlets. The TRISX series comprises fully isolated system outlets developed to meet the needs of the European market. They incorporate high voltage capacitors that provide isolation to both the inner and the outer conductors of the coaxial connectors. There are a variety of one, two and three port isolators in the TRISX series as well as many accessories such as ABS housings, adaptor plates and push-on filters.

The TRISX-1002 single output isolator has a white bronze plated, zinc diecast housing and a tin-nickel plated, machined brass input connector.

Modem Safe™

Modem Safe is a highly effective surge protection solution for sensitive network and in-home CPE. Based on passive circuits, the technology does not rely on discharge tubes, extending the lifespan of the solution.

- Blocks high and low voltage pulses and unwanted DC voltages
- Prevents internal ferrites within the product from becoming magnetized (avoiding deterioration in the performance of CPE)
- Drives fewer reported faults
- Improves customer service
- Reduces truck rolls

CPD Safe™

CPD (Common Path Distortion) is well known for producing signal interference on networks. It is caused by electrolytic corrosion or the oxidization of dissimilar metals when in close contact. CPD Safe technology protects against CPD.

- Removes a primary cause of CPD
- Reduces signal interference on the network
- Drives fewer reported faults
- Reduces truck rolls
- Improves customer service

Specifications

Characteristic	Port type	MHz	Min.	Typ.	Max.	Unit	Notes
Equipment passband		5-1218					
Insertion loss	In-out	0.3-1	20			dB	
		5-10			0.6	dB	
		10-470		0.3	0.4	dB	
		470-862		0.5	0.7	dB	
		862-1218		0.6	0.9	dB	
Return loss	All ports	5-10	18			dB	
		10-50	20			dB	
		50-1000	18			dB	
		1000-1218	16			dB	
Emc	In-out	8-10	70			dB	1
		10-12	80			dB	1
		12-300	85			dB	1
		300-470	80			dB	1
		470-980	75			dB	1
		980-1218	55			dB	1
Galvanic isolation 2120 VDC (max.)	Inner (input) - Inner (output) Outer (input) - Outer (output)	0.2				mA	2
Galvanic isolation 230 VAC (max.)	Inner (input) - Inner (output) Outer (input) - Outer (output)	2.0				mA	2
Intermodulation p+q (min.)	No surge	-120				dB	3
	25 V surge	-120				dB	4
	1 kV surge	-120				dB	5
Surge Class conformance		1 kV 1.2/50 μ S					6,7
Connectors	All ports	F-female					
Material	Housing	White bronze plated zinc diecast					
	F-spring	Silver plated beryllium copper					
Impedance (typ.)		75				Ω	
Dimensions	L x H x D	60 x 38 x 20				mm	
Equipment approval		CE					

Notes

	All specifications are measured at room temperature.
	Operating frequency range 10-1218 MHz.
1	Test Method for frequencies according to EN50083-2 2012. Operating frequency ranges: 10-1218 MHz according to IG 56620 01.
2	Tested according to EN 60728-11 2005.
3	Two carriers (60 and 65 MHz) output to output @ 120 dBμV/60 dBmV, before surge.
4	Two carriers (60 and 65 MHz) output to output @ 120 dBμV/60 dBmV, after 10 pulses (25 V/1.2 μs rise time/500 μs duration) at input port, tested according to IEC 60728-4.
5	Two carriers (60 and 65 MHz) output to output @ 120 dBμV/60 dBmV, after 1 pulse (1 kV 1.2 μs/50 μs, IEC 61000-4-5 2005 level 2) at input port, tested according to IEC 60728-4.
6	Tested according to IEC 61000-4-5 2005.
7	Additional protection via Modem Safe circuit allows a maximum output of 35 V.

Order information

Item code	Model code	Description
19008921	TRISX-1002	ISOLATOR DOUBLE GALVANIC 1 PORT F-F F-F 5-1218 MHz