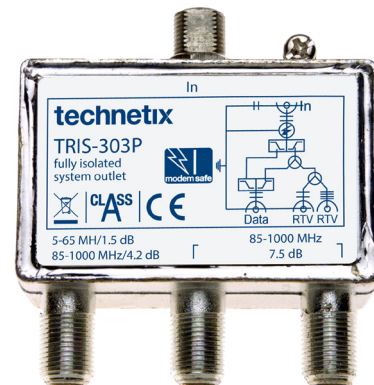


TRIS-303P – isolator

- **Three output isolator – data /RTV / RTV**
- **Modem Safe surge protection and**
- **Intermodulation reduction solution**
- **Diplex filters for low loss**
- **Good intermodulation performance**
- **Low leakage current**

**Overview**

Isolators (frequently referred to as system outlets) are used to separate in home installations 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 TRIS 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 TRIS series as well as many accessories such as ABS housings, adaptor plates and push-on filters.

The TRIS-303P three output isolator has a silver plated, zinc alloy casing and a silver plated, machined brass input connector. The inner spring of the connector has been designed to accept coax cables with an inner conductor of between 0.51 mm and 1.20 mm. It retains this elasticity and provides effective clamping force even when varying thicknesses of inner conductor are connected in succession.

Technetix 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 magnetised (avoiding deterioration in the performance of CPE)
- Drives fewer reported faults
- Improves customer service
- Reduces truck rolls

Specifications

		MHz	Min	Max	Typ
Frequency range (dB)		5 - 1000			
Insertion loss (dB)	In to data	5 - 65	0.2	2.5	1.5
		85 - 862	3.6	4.9	4.2
		862 - 1000	4.4	5.2	4.8
	In to R/TV	5 - 65	40.0		
		85 - 862		8.6	7.5
		862 - 1000		8.9	8.0
Return loss (dB)	In	5 - 65	18.0		
		85 - 1000 ¹	18.0		
	Data	5 - 65	15.0		
		85 - 1000 ¹	14.0		
Isolation (dB)	R/TV to data	5 - 65	40.0		
		85 - 1000	22.0		
	R/TV to R/TV	5 - 1000	20.0		
Galvanic isolation 2120 V DC (mA)	Input to inner conductor ²				0.7
	Output to outer conductor				0.7
	Input to outer conductor ²				0.7
Galvanic isolation 230 V AC (mA)	Input to inner conductor ²				2.0
	Output to outer conductor				2.0
	Input to outer conductor ²				2.0
Screening effectiveness (dB)	08 - 10	70			
	10 - 12	80			
	12 - 300 ³	85			95.0
	300 - 470 ³	80			90.0
	470 - 1000 ³	75			85.0
Intermodulation p+q (dB, min)⁴	Before/after pulses				-115.0
Surge protection (kV)⁵		1 kV 1.2/50µS			
Connectors	In: F-female Data: F-female R/TV: F-female				
Equipment approval	CE				

Remarks

	Measurements taken at room temperature
1	F > 40 MHz -1.5 dB/oct, with a minimum of 10 dB
2	IEC-60728-11§10 Safety Requirement: 2120 VDC T ≥ 1 minute, I ≤ 0,7 mA, 230 VAC I ≤ 8,0 mA RMS
3	Transfer impedance method according IEC 60728-2 (5-30 MHz) Absorption clamp method according IEC-60728-2 § 4.4 (30-1000 MHz)
4	Two carriers (50 MHz and 55 MHz), Data to in, @ 120 dBµV, after 10 pulses (25V/1.2 µS risetime/500 µS duration) at all ports
5	IEC 1000-4-5 level-2 with ports terminated

Ordering information

Item name	Article number
TRIS-303P	10460303

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