

TRISZ-DG300 DOUBLE GALVANIC ISOLATOR with HOUSING



- 2.0 GHz single output double galvanic isolator
- Integrated grounding point
- Enables easy reliable installation
- Compact housing
- Screw hole to secure standard IEC push on splitters
- Excellent RF performance
- Exceeds EN Class A+ screening requirements



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 major types of isolator; fully and semi-isolated system outlets. The TRISZ-DG300 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.

Operating up to 2 GHz, the TRISZ-DG300 offers an isolation solution for full DOCSIS 3.1 deployments while maintaining high levels of performance and protection.

Modem Safe™

The TRISZ-DG300 is equipped with Modem Safe protection. 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
- Drives fewer reported faults
- Improves customer service
- Reduces truck rolls

Specifications

Parameter	Frequency Range (MHz)	Min	Typ	Max
Equipment Passband	5-2000			
Insertion Loss (dB)	5-12		0.3	
	12-1006		0.5	0.9
	1006-1700		0.8	1.4
	1700-2000		1.0	1.7
Return Loss (In, dB) ¹	5-12		20	
	12-15	16		
	15-65	20		
Return Loss (Out, dB) ¹	65-2000	20		
	5-12		20	
	12-65	20		
Screening Effectiveness ²	(mΩ/m) 5-12		10	
	(mΩ/m) 12-30	2.5		
	(dB) 30-1000	95		
	(dB) 1000-2000	85		
Galvanic isolation 230 V AC (mA, RMS) ³	Inner (input) - Inner (output)		8.0	
	Outer (input) - Outer (output)		8.0	
Galvanic isolation 2120 V DC (mA) ³	Inner (input) - Inner (output)		0.7	
	Outer (input) - Outer (output)		0.7	
Surge Class conformance ^{4/5}			1 KV, 1.2/50 μS at input	
Connectors	Input		F-Type Female ⁶	
	Output		IEC-Male ⁷	
Grounding Block Screw			Accepts 3mm diameter and smaller	
Materials	Housing and Output Connector		White Bronze Plated Zinc Diecast	
	Input Connector		White Bronze Plated Brass	
	F-Spring		White Bronze Plated Beryllium Copper	
	ABS Housing		RAL 9010	
Temperature Range (°C)	Operating		5 to 45	
	Storage		-20 to 75	
Impedance (Ohm, typ)			75	
Equipment Approval			CE	

Remarks

All specifications are measured at room temperature

1	F > 40 MHz -1.5 dB/oct always > 12dB* *Note high frequency performance dependent on quality of mating IEC connector
2	Transfer impedance method according IEC 60728-2 (5-30 MHz) Absorption clamp method (30-950 MHz) Substitution method according IEC-60728-2 § 4.4 (950MHz-2GHz)
3	IEC-60728-11 § 9 Safety Requirement: 2120 VDC T _z ≥ 1 minute, ≤ 0.7 mA. 230 VAC ≤ 8.0 mA RMS
4	IEC 61000-4-5 level 2 with ports terminated
5	Additional protection via Modem Safe circuit allows a maximum output of 35 V
6	F-Type Female according to EN 61169-24
7	IEC Male according to IEC 61169-2

Ordering information

Item name:	TRISZ-DG300
Article number:	19010463