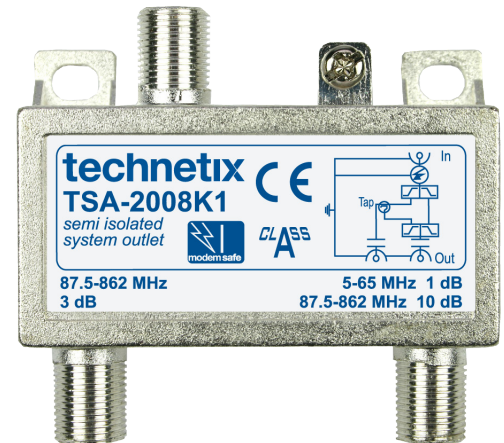


TSA-2008K1



- **Dual output**
- **Semi-isolated isolator**
- **Cenelec Class A screening effectiveness**
- **Low profile housing**
- **Modem Safe™ surge protection and intermodulation reduction at input**
- **Silver plated housing**
- **Diplex filters for low loss**
- **Available ABS-housings: C-TSA**



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 TSA-series consists of semi-isolated system outlets. This type of isolator incorporates an isolating component (high voltage capacitor) in series with the inner conductor of the coaxial connectors.

The TSA-series has been specially developed to meet the needs of the European market. There are a variety of single, dual and three port isolators in the TSA series. Additional circuits are incorporated into some designs. Tap outputs, filters and splitter circuits are available.

TSA semi-isolated system outlets have a silver plated, zinc die-cast housing. The inner spring of the connector has been designed to accept coax cables with an inner conductor of between 0.51 and 1.20 mm. It retains this elasticity and provides effective clamping force even when varying thicknesses of inner conductor are connected in succession. The high frequency shielding exceeds Class A requirements (IEC-60728-2) over the frequency range.

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	Typ	Max
Frequency range		5 - 862			
Insertion loss (dB)	In to Radio/TV	5 - 65	30.0		
		87.5 - 862			3.0
	In to data	5 - 65			1.0
		87.5 - 862		10.5	
Return loss (dB)	All ports	5 - 65	15.0		
		87.5 - 862	15.0		
Isolation (dB)	Radio/TV to Data	5 - 65	30.0		
		87.5 - 862	20.0		
Galvanic isolation 2120 V DC (mA) ¹	Inner conductor input to inner conductor output				0.2
Galvanic isolation 230 V AC (mA) ¹	Inner conductor input to inner conductor output				2.0
Screening efficiency (dB) ²		5 - 300	85.0		
		300 - 470	80.0		
		470 - 1000	75.0		
Surge Class conformance ³	Input	1 kV 1.2/50µs			
Connectors	All ports	F-female			
Material	Housing	Silver			
Impedance (Ohm, typ)		75			
Dimensions (mm)	L x H x D	60 x 55 x 20			
Equipment approval	CE				

Remarks

1	IEC-60728-11 §10 Safety Requirement: 2120 VDC T 1 minute, I 0,7 mA, 230 VAC I 8,0 mA RMS
2	Transfer impedance method according IEC 60728-2 (5-30 MHz) Absorption clamp method according IEC-60728-2 § 4.4 (30-1000 MHz)
3	IEC 61000-4-5: 1995 (Surge 1KV, 1,2/ 50µs, Level 2)

Ordering information

Item Name	Article number
TSA-2008K1	10462008

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