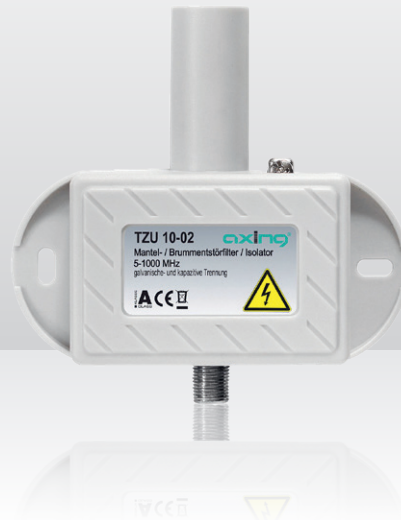


Galvanic isolators

TRIS-1002/AEN and TZU-10-02



22380010
TRIS-1002/AEN



22380015
TZU-10-02



TRIS-1002/AEN

- Galvanic isolation of inner and outer conductor of home installation cables
- Prevention of equipotential bonding currents (DC) between protective grounding of the 230 V network and grounding of the CATV network (connection of these two points when connecting a PC with TV card or a cable modem via outer conductor of the CATV cable)
- Preventing the drain of leakage currents (AC) via the outer conductor of the CATV cable to the CATV grounding point in the absence of protective

grounding of the 220 V socket (leakage currents are created by screen filters in power converter PSUs of PCs, with transients to ground – the PC chassis – and subsequently to be discharged via the mains voltage protective conductor to earth)

- A housing for TRIS-1002/AEN, plastic, color: ivory, is available separately with Order No. 22380011.

Parameter	Frequency [MHz]	TRIS-1002/AEN	
Through loss [dB]	IN – OUT	5 – 40	0,2 ± 0,3
		40 – 470	0,2 ± 0,3
		470 – 1.000	0,4 ± 0,3
		1.000 – 1.006	0,4 ± 0,3
Return loss [dB typ.]	IN	5 – 40	> 20
		40 – 470	> 18
		470 – 1.000	> 18
		1.000 – 1.006	> 18
	OUT	5 – 40	> 20
		40 – 470	> 18
		470 – 1.000	> 18
		1.000 – 1.006	> 18
Galvanic Isolation		According to EN 50083-1/A1§9	
Inner conductor IN to inner conductor OUT & outer conductor IN to outer conductor OUT		2.120 VDC for at least 1 minute not exceeding 0,2 mA leakage current, 230 V RMS 50/60 Hz not exceeding 2,0 mA RMS – surge protection at input	
Order No.		22380010	

TZU-10-02

The sheath current filter with isolating transformer TZU-10-02 prevents faults that can arise due to sheath currents or unfavorable grounding conditions.

Parameter	TZU-10-02
Frequency range [MHz]	5 – 1.006
Through loss [dB]	< 0,5
Return loss [dB]	> 20, -1,5 dB/OCT
Impedance [Ω]	75
Connections	F-Female
Order No.	22380015

DGT-3: CATV system ground isolator



KLASSE
A
CLASS

- Isolation of inner and outer conductor by capacitors for isolation of ground potential between CATV network and inhouse distribution network
- Rejection of hum voltages caused by ground-loops
- In- and output connectors as F-females
- Very high return loss, high screening factor according EN 50083-2 Class A

Parameter	Frequency [MHz]	DGT-3	
Through loss [dB]	IN – OUT	5 – 15	0,3 ± 0,2
		15 – 40	0,3 ± 0,2
		40 – 470	0,3 ± 0,2
		470 – 862	0,3 ± 0,3
		862 – 1.006	0,3 ± 0,5
Return loss [dB typ.]	IN	5 – 15	> 18
		15 – 40	> 23
		40 – 470	> 23*
		470 – 862	> 18
		862 – 1.006	> 18
	OUT	5 – 15	> 18
		15 – 40	> 23
		40 – 470	> 23*
		470 – 862	> 18
		862 – 1.006	> 18
Delay inequality [ns] (Δ 4,43 MHz)		< 10	
Voltage resistance		1 kVDC For at least 1 minute with a leakage DC current < 0,7 mA within the specified period (equivalent to an insulating resistance of ≥3,0 mΩ), 230 VACeff 50/60 Hz with a leakage AC current < 8,0 mAeff	
Diameter [mm]		16,5	
Length [mm]		66,5	
Order No.		22381000	

* f = 40 MHz -1,5 dB/Oct.

