

# DATA-TV Filter Galvanic Isolator

41144 | DVU 1-4 GI LTE



## INTRODUCTION

The DKT COMEGA galvanic isolator provides isolation between the network and the consumer infrastructure without sacrificing performance, as it eliminates balancing currents due to local potential differences on the wire to cause damage of the networking equipment as well as household equipment. At the same time the galvanic isolator provides a low insertion loss on the return path data, enabling an error free data communication. The galvanic isolator is suitable for DOCSIS 3.1 networking infrastructure, is easy to install and is transparent to the network. To prevent ingress noise from LTE etc. there is an LTE 790 MHz low pass filter on TV port.

The connectors are all female F-connectors.

## Additional information

- Galvanic isolation according to EN60728-11, i.e.
  - test voltage 2120Vdc, 1 minute, current <0.7mA.
  - test voltage 230VAC (50Hz or 60Hz) leakage current <8mA
- Screening immunity according to EN 50083-2, Class A
- A snap-on cover is available, [Item No. 52847](#)

## PRODUCT OVERVIEW

### “41144 DVU 1-4 GI LTE”

Parameter	FREQUENCY [MHz]	DVU 1-4 GI LTE
Insertion loss [dB]	IN-DATA	5 – 204 <1
		258 – 1300 4 (typ)
	IN-TV	258 – 720 4 (typ)
		720 – 790 <7.5
Isolation [dB]	IN-TV	820 – 1300 >40
		5 – 204 >45
	TV-DATA	5 – 204 >45
		258 – 822 >20
Return loss [dB]		822 – 1300 >40
	IN, DATA	5 – 204 18
		258 – 1300 18 <sup>1)</sup>
	TV	258 – 790 16 <sup>1)</sup>

#### Item No.

**41144**

<sup>1)</sup> -1.5dB/oct, minimum 10dB