

DATA-TV Filter Galvanic Isolator

The DKTCOMEGA 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.

The connectors are all female F-connectors.



Type no.	DVU 1-4 GI		DVU 1-4 GI65		DVU 1-4 GI85	
Item no.	41140		41141		41145	
Insertion loss						
IN-DATA	5-204 MHz	<1 dB	5-65MHz	<1dB	5-85MHz	<1dB
	258-1300 MHz	4 dB (typ)	87-1300MHz	4 dB (typ)	118-1300MHz	4 dB (typ)
IN-TV	258-1000 MHz	4 dB (typ)	87-1000MHz	4 dB (typ)	118-1000MHz	4 dB (typ)
Isolation						
IN-TV	5-204 MHz	>45 dB	5-65MHz	>40 dB	5-85MHz	>40 dB
	258-1300 MHz	>20 dB	87-1300MHz	>20 dB	118-1300MHz	>20 dB
TV-DATA	5-204 MHz	>45 dB	5-65MHz	>50 dB	5-85MHz	>50 dB
	258-1000 MHz	>20 dB	87-1000MHz	>20 dB	118-1000MHz	>20 dB
TV	258-1300 MHz	>20 dB	87-1300MHz	>20 dB	118-1300MHz	>20 dB
Return loss						
IN, DATA	5-204 MHz	18 dB *	5-65MHz	18 dB	5-85MHz	18 dB *
	258-1300 MHz	18 dB *	87-1300MHz	18 dB *	118-1300MHz	18 dB *
TV	258-1000 MHz	16 dB *	87-1000MHz	18 dB *	118-1000MHz	18 dB *

Galvanic isolation according to EN60728-11, i.e.

(a) test voltage 2120Vdc, 1 minute, current <0.7mA.

(b) test voltage 230VAC (50Hz or 60Hz) leakage current <8mA

Screening immunity according to EN60728-2, Class A+

* -1.5dB/oct, minimum 10dB

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