

IEC 62368-1:2023 Certificate of Compliance

Products: Single Protection and Reinforced Non-Optical Digital Isolators, Models IL2xx Series, IL2xx-1 Series, IL2xxV Series, IL6xx Series, IL6xxA Series, IL7xx Series, IL7xx-1 Series, IL7xxV Series, IL5xx Series, IL5xx-1 Series, IL4xx Series, IL4xxV Series, IL30xx Series, IL3085T, IL31xx Series, IL32xx Series, IL34xx Series, IL35xx Series, IL35xxV Series, IL36xx Series, IL36xx-1 Series, IL36xxT Series, IL36xxV Series, IL46xx Series, IL4822 Series, IL41050TFD Series, IL4150TTV Series, IL8xx Series, IL8xx-1 Series, IL8xxV Series, IL76xxV, and IL78xxV.

Name and address of manufacturer: NVE Corporation
11409 Valley View Road
Eden Prairie, MN 55344-3617

Trademark/Brand: 
NVE CORPORATION

A sample of the products was tested and found to conform with the following standard(s): IEC 62368-1:2023 Audio/video, information, and communication technology equipment – Part 1: Safety requirements

Certification Details: This certification signifies that the product has undergone rigorous testing and assessment in accordance with the hazard-based safety engineering approach outlined in IEC 62368-1. The product design has been analyzed to identify and mitigate potential hazards, ensuring that it meets the safety requirements specified in the standard.

Testing Laboratory: UL
Certification Reference Number: [20141210-E207481](#)

Testing laboratory: VDE
Certification Reference Number: [5016933-4880-0001/281909/TL7/SCT](#)

Clause	Requirement + Test	Result-Remark	Verdict
5.4.3	Creepage	See VDE certification in Appendix A	Pass
5.4.3.3	IEC 60112 evaluation and material classification	Comparative Tracking Index ≥ 600 V _{RMS} (mold compound has been measured in accordance with IEC60112)	Pass
5.4.2	Clearance	See VDE certification in Appendix A	Pass
5.4.4.2	Distance through insulation	Minimum: 0.012 mm	Pass
5.4.9.1	Dielectric after temperature test	$>10^{14} \Omega$	Pass

Authorized Signature:



Name: Daniel A. Baker

Title: President & CEO

NVE Corporation

Date: January 18, 2024

Appendix A:

Part Number	Input	Output	Package	Clause 5.4.3: Creepage	Clause 5.4.2: Clearance
Typ(en) Type(s)	Eingang Input	Ausgang Output	Gehäuse Package	Äußere Kriechstrecke Eingang - Ausgang External creepage distance Input - Output [mm]	Äußere Luftstrecke Eingang - Ausgang External clearance distance Input - Output [mm]
IL26 (0;1;2)	CMOS chip	CMOS chip	16pin SOIC - WB	≥ 8,0	≥ 8,0
IL26 (0;1;2) -3	CMOS chip	CMOS chip	8pin SOIC - NB	≥ 4,5	≥ 4,5
IL30 (22;85)	CMOS chip	CMOS chip	16pin SOIC - WB	≥ 8,0	≥ 8,0
IL30 (22;85) -3	CMOS chip	CMOS chip	8pin SOIC - NB	≥ 4,5	≥ 4,5
IL31 (22;85)	CMOS chip	CMOS chip	16pin SOIC - WB	≥ 8,0	≥ 8,0
IL31 (22;85) -3	CMOS chip	CMOS chip	8pin SOIC - NB	≥ 4,5	≥ 4,5
IL32 (22;85)	CMOS chip	CMOS chip	16pin SOIC - WB	≥ 8,0	≥ 8,0
IL32 (22;85) -3	CMOS chip	CMOS chip	8pin SOIC - NB	≥ 4,5	≥ 4,5
IL34 (22;85)	CMOS chip	CMOS chip	16pin SOIC - WB	≥ 8,0	≥ 8,0
IL34 (22;85) -3	CMOS chip	CMOS chip	8pin SOIC - NB	≥ 4,5	≥ 4,5
IL35 (22;85)	CMOS chip	CMOS chip	16pin SOIC - WB	≥ 8,0	≥ 8,0
IL36 (22;85)	CMOS chip	CMOS chip	16pin SOIC - WB	≥ 8,0	≥ 8,0
IL4 (22;85) (blank;W)	CMOS chip	CMOS chip	16pin SOIC - WB	≥ 8,0	≥ 8,0
IL51 (4;5;6)	CMOS chip	CMOS chip	16pin SOIC - WB	≥ 8,0	≥ 8,0
IL51 (0;1;4;6) -1	CMOS chip	CMOS chip	8pin MSOP	≥ 3,5	≥ 3,5
IL51 (0;1;4;6) -3	CMOS chip	CMOS chip	8pin/16pin SOIC - NB	≥ 4,5	≥ 4,5
IL61 (0;1;2;3;4) (blank;A)	CMOS chip	CMOS chip	16pin SOIC - WB	≥ 8,0	≥ 8,0
IL61 (0;1;2;3;4) (blank;A) -2	CMOS chip	CMOS chip	PDIP	≥ 7,0	≥ 7,0
IL61 (0;1;2;3;4) (blank;A) -1	CMOS chip	CMOS chip	8pin MSOP	≥ 3,5	≥ 3,5
IL61 (0;1;2;3;4) (blank;A) -3	CMOS chip	CMOS chip	8pin/16pin SOIC - NB	≥ 4,5	≥ 4,5
IL41050 (A;B;C;...;Z)	CMOS chip	CMOS chip	16pin SOIC - WB	≥ 8,0	≥ 8,0
IL41050 T (A;B;C;...;Z)	CMOS chip	CMOS chip	16pin SOIC - WB	≥ 8,0	≥ 8,0
IL41050 (A;B;C;...;Z) -3	CMOS chip	CMOS chip	16pin SOIC - NB	≥ 4,5	≥ 4,5
IL41050 T (A;B;C;...;Z) -3	CMOS chip	CMOS chip	16pin SOIC - NB	≥ 4,5	≥ 4,5
IL71 (0;1;2;5;6;7) (blank;S)	CMOS chip	CMOS chip	16pin SOIC - WB	≥ 8,0	≥ 8,0
IL71 (0;1;2;5;6;7) (blank;S) T	CMOS chip	CMOS chip	16pin SOIC - WB	≥ 8,0	≥ 8,0
IL71 (0;1;2;5;6;7) (blank;S) -2	CMOS chip	CMOS chip	PDIP	≥ 7,0	≥ 7,0
IL71 (0;1;2;5;6;7) (blank;S) T -2	CMOS chip	CMOS chip	PDIP	≥ 7,0	≥ 7,0
IL71 (0;1;2;5;6;7) (blank;S) -1	CMOS chip	CMOS chip	8pin MSOP	≥ 3,5	≥ 3,5
IL71 (0;1;2;5;6;7) (blank;S) T -1	CMOS chip	CMOS chip	8pin MSOP	≥ 3,5	≥ 3,5
IL71 (0;1;2;5;6;7) (blank;S) -3	CMOS chip	CMOS chip	8pin/16pin SOIC - NB	≥ 4,5	≥ 4,5
IL71 (0;1;2;5;6;7) (blank;S) T -3	CMOS chip	CMOS chip	8pin/16pin SOIC - NB	≥ 4,5	≥ 4,5
IL721 (blank;S)	CMOS chip	CMOS chip	16pin SOIC - WB	≥ 8,0	≥ 8,0
IL721 (blank;S) T	CMOS chip	CMOS chip	16pin SOIC - WB	≥ 8,0	≥ 8,0
IL721 (blank;S) -1	CMOS chip	CMOS chip	8pin MSOP	≥ 3,5	≥ 3,5
IL721 (blank;S) T -1	CMOS chip	CMOS chip	8pin MSOP	≥ 3,5	≥ 3,5
IL721 (blank;S) -3	CMOS chip	CMOS chip	8pin/16pin SOIC - NB	≥ 4,5	≥ 4,5
IL721 (blank;S) T -3	CMOS chip	CMOS chip	8pin/16pin SOIC - NB	≥ 4,5	≥ 4,5
IL81 (0;1;4;5;6)	CMOS chip	CMOS chip	16pin SOIC - WB	≥ 8,0	≥ 8,0
IL81 (0;1;4;5;6) -1	CMOS chip	CMOS chip	8pin MSOP	≥ 3,5	≥ 3,5
IL81 (0;1;4;5;6) -3	CMOS chip	CMOS chip	8pin/16pin SOIC - NB	≥ 4,5	≥ 4,5

Table 1: Creepage and Clearance (Source: VDE Certification [5016933-4880-0001/281909/TL7/SCT](https://www.vde.com/5016933-4880-0001/281909/TL7/SCT))