

Optocoupler



Verification Certificate

This is to certify that:

Vishay Semiconductor GmbH
Theresienstrasse 2
Heilbronn
74072
Germany

Holds Certificate Number:

VC 641592

In respect of:

**BS EN 62368-1:2014 Audio/Video, information and communication Technology Equipment
Clauses 5.4, 5.5 & 6.4.5**

Type samples representative of the products listed have been tested and examined to the relevant requirements of the normative reference listed and have been found to comply with these requirements as detailed in the related Test Report as listed on page 2



For and on behalf of BSI:

Shahm Barhom, Group Product Certification Director

First Issued: 2016-01-11

Latest Issue: 2023-07-20

Effective Date: 2023-07-20

Expiry Date: 2025-07-02

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Verification Certificate

No. VC 641592

Manufacturing Location: Vishay Semiconductor Malaysia Sdn. Bhd.
No. 1710-1 Kawasan Perindustrian Krubong
75250 Melaka
Malaysia

Test Report Number: 3908929

Product Description

Optocoupler types:

6N137, VO2611, SFH6750, SFH6751 and VO4661

Optocouplers DIP8, 1-channel and 2-channels as listed below:

DIP8, 1-channel:

6N137
VO2611

DIP8, 2-channel:

SFH6750
SFH6751
VO4661

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Rated as below:

Standard models

	Basic and Supplementary Insulation	Reinforced Insulation
1. Hygroscopic/asbestos/natural rubber materials used:	No	No
2. Insulation system:	Basic / Supplementary	Reinforced
3. Mains supply voltage:	600 V r.m.s.	300 V r.m.s.
4. RMS working voltage:	600 V r.m.s.	300 V r.m.s.
5. Peak working voltage:	2500 V	2500 V
6. Overvoltage category:	II	II
7. Pollution degree:	External 2 Internal 1	External 2 Internal 1
8. Maximum operating temperature:	110 °C	110 °C
9. Clearance distance:	≥3.6 mm	≥3.6 mm
10. Creepage distance:	≥6.0 mm	≥6.0 mm
11. Distance through insulation:	≥0.4 mm	≥0.4 mm
12. Comparative Tracking Index (CTI):	175 ≤ CTI ≤ 400	175 ≤ CTI ≤ 400
13. Material group:	IIIa	IIIa
Working parameters		
Mains transient voltage (Withstand voltage)	4000 V peak	2500 V peak
Thermal cycling storage temperature:	120 °C	120 °C
Thermal cycling electric strength test voltage.	4000 V peak	5000 V peak

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"Option 6" and "Option 7" models

	Basic and Supplementary Insulation	Reinforced Insulation
1. Hygroscopic/asbestos/natural rubber materials used:	No	No
2. Insulation system:	Basic / Supplementary	Reinforced
3. Mains supply voltage:	600 V r.m.s.	300 V r.m.s.
4. RMS working voltage:	600 V r.m.s.	300 V r.m.s.
5. Peak working voltage:	2500 V peak	2500 V peak
6. Overvoltage category:	II	II
7. Pollution degree:	External 2 Internal 1	External 2 Internal 1
8. Maximum operating temperature:	110 °C	110 °C
9. Clearance distance:	≥3.6 mm	≥3.6 mm
10. Creepage distance:	≥6.0 mm	≥6.0 mm
11. Distance through insulation:	≥0.4 mm	≥0.4 mm
12. Comparative Tracking Index (CTI):	175 ≤ CTI ≤ 400	175 ≤ CTI ≤ 400
13. Material group:	IIIa	IIIa
Working parameters		
Mains transient voltage (Withstand voltage)	4000 V peak	2500 V peak
Thermal cycling storage temperature:	120 °C	120 °C
Thermal cycling electric strength test voltage.	4000 V peak	5000 V peak

In respect of BS EN 62368-1:2014 Clause 6.4.5, samples passed the flammability requirements in accordance with EN 60747-5-5:2001 Clause 7.4.3.6.1

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