



# Optocoupler



## Verification Certificate

This is to certify that: Vishay Semiconductor GmbH  
Theresienstrasse 2  
Heilbronn  
74072  
Germany

Holds Certificate Number: VC 641595

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: Frank Lee, Product Certification Technical and Compliance Director

First Issued: 2016-01-15  
Latest Issue: 2021-08-05

Effective Date: 2021-08-05  
Expiry Date: 2023-03-15

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### Verification Certificate

No. VC 641595

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

Test Report Number: 3425434

**Product Description**

Optocoupler types SFH6\*^X-#.... using 'over-under' construction (bi-plane)

Using leadframe types 1001-9130-4AC or 0019212-1AC

SFH6156-1	SFH6156-2	SFH6156-3	SFH6156-4		
SFH6186-1	SFH6186-2	SFH6186-3	SFH6186-4	SFH6186-5	
SFH618A-1	SFH618A-2	SFH618A-3	SFH618A-4	SFH618A-5	

Using leadframe types 1001-9130-4BC or 0019212-1BC

SFH6106-1	SFH6106-2	SFH6106-3	SFH6106-4	SFH6106-5	SFH610A-1
SFH610A-2	SFH610A-3	SFH610A-4	SFH610A-5		

Using leadframe types 1001-9130-4EC or 0019212-1EC

SFH620A-2	SFH620A-3	SFH620AAA			
SFH6206-1	SFH6206-2	SFH6206-3			
SFH620AGB	SFH6286-2	SFH6286-3	SFH6286-4	SFH628A-2	SFH628A-3
SFH628A-4					

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Rated as below:

Standard models

	<b>Basic and Supplementary Insulation</b>	<b>Reinforced Insulation</b>
1. Insulation system:	Basic / Supplementary	Reinforced
2. Mains supply voltage:	600 V r.m.s.	300 V r.m.s.
3. RMS working voltage:	600 V r.m.s.	300 V r.m.s.
4. Peak working voltage:	2500 V peak	2500 V peak
5. Overvoltage category:	II	II
6. Pollution degree:	External 2 Internal 1	External 2 Internal 1
7. Maximum operating temperature:	100 °C	100 °C
8. Clearance distance:	≥3.0 mm	≥3.6 mm
9. Creepage distance:	≥6.0 mm	≥6.0 mm
10. Distance through insulation:	≥0.4 mm	≥0.4 mm
11. Comparative Tracking Index (CTI):	175 ≤ CTI ≤ 400	175 ≤ CTI ≤ 400
12. Material group:	IIIa	IIIa
<b>Working parameters</b>		
Mains transient voltage (Withstand voltage)	4000 V peak	2500 V peak
Thermal cycling storage temperature:	110 °C	110 °C
Thermal cycling electric strength test voltage.	4000 V peak	5000 V peak

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### Verification Certificate

No. VC 641595

"Option 6", "Option 7", "Option 8" and "Option 9" models

	<b>Basic and Supplementary Insulation</b>	<b>Reinforced Insulation</b>
1. Insulation system:	Basic / Supplementary	Reinforced
2. Mains supply voltage:	600 V r.m.s.	400 V r.m.s.
3. RMS working voltage:	600 V r.m.s.	400 V r.m.s.
4. Peak working voltage:	2500 V peak	2500 V peak
5. Overvoltage category:	II	II
6. Pollution degree:	External 2 Internal 1	External 2 Internal 1
7. Maximum operating temperature:	100 °C	100 °C
8. Clearance distance:	≥3.0 mm	≥5.5 mm
9. Creepage distance:	≥6.0 mm	≥8.0 mm
10. Distance through insulation:	≥0.4 mm	≥0.4 mm
11. Comparative Tracking Index (CTI):	175 ≤ CTI ≤ 400	175 ≤ CTI ≤ 400
12. Material group:	IIIa	IIIa
<b>Working parameters</b>		
Mains transient voltage (Withstand voltage)	4000 V peak	4000 V
Thermal cycling storage temperature:	110 °C	110 °C
Thermal cycling electric strength test voltage.	4000 V peak	6000 V peak

Note: This certificate has been issued for the renewal of VC 641595.

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