

Optocoupler



Verification Certificate

This is to certify that:

Vishay Semiconductor GmbH
Theresienstrasse 2
Heilbronn
74072
Germany

Holds Certificate Number:

VC 641608

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: 2016-01-18

Effective Date: 2022-05-12

Latest Issue: 2022-05-12

Expiry Date: 2023-10-25

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Verification Certificate

No. VC 641608

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

Test Report Number: 3583745

Product Description

Optocoupler types:

TCLT series –
Single channel; d.c. input;
without base; 4-pin.
Standard transistor output.

TCLT series –
Single channel; d.c. input; with
base; 5-pin.
Standard transistor output.

TCLT series –
Single channel; a.c. input;
Standard transistor output.

TCLD series –
Single channel; d.c. input;
without base; 4-pin.
Darlington transistor output.

TCLT1000
TCLT1001
TCLT1002
TCLT1003
TCLT1004
TCLT1005
TCLT1006
TCLT1007
TCLT1008
TCLT1009
TCLT1010
TCLT1011
TCLT1012
TCLT1013
TCLT1014
TCLT1015
TCLT1016
TCLT1017
TCLT1018
TCLT1019
VOL617A-#
VOL618A-#

TCLT1100
TCLT1101
TCLT1102
TCLT1103
TCLT1104
TCLT1105
TCLT1106
TCLT1107
TCLT1108
TCLT1109
TCLT1110
TCLT1111
TCLT1112
TCLT1113
TCLT1114
TCLT1115
TCLT1116
TCLT1117
TCLT1118
TCLT1119
VOL607A-#
VOL608A-#

TCLT1600
VOL628A-#

TCLD1000

= CTR selection group 0, 1, 2, 3, 4, 5, 6, 7, 8 and 9
(Note: Model designations may be followed by additional suffixes)

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Rated as below:-

1. Hygroscopic/asbestos/natural rubber materials used:	No
2. Insulation system:	Reinforced
3. Mains supply voltage:	≤300 V r.m.s.
4. RMS working voltage:	≤400 V r.m.s.
5. Peak working voltage:	2500 V peak
6. Overvoltage category:	II
7. Pollution degree:	External 2 Internal 1
8. Maximum operating temperature:	110°C
9. Clearance distance:	≥3.6mm
10. Creepage distance:	≥8.0mm
11. Clearance distance along cemented joint:	≥3.6mm
12. Creepage distance along cemented joint:	≥3.6mm
13. Distance through insulation:	≥0.4mm
14. Comparative Tracking Index (CTI):	400 ≤ CTI ≤ 600
15. Material group:	II
Working parameters	
Mains transient voltage (Withstand voltage)	2500 V peak
Thermal cycling storage temperature:	120°C
Thermal cycling electric strength test voltage:	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

Note: This certificate has been issued for the renewal of VC 641608.

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