



VISHAY INTERTECHNOLOGY, INC.



RoHS
COMPLIANT



110 °C OPTOCOUPERS



110 °C Optocouplers

For designers who require an optocoupler for their high temperature applications, the new family of 110 °C optocouplers from Vishay operates at temperatures from –55 to 110 °C. They improve the performance and reliability of multi-market applications, which include power supply adapters.

KEY BENEFITS

- Operate at high ambient temperatures up to 110 °C
- Certified by key international safety regulatory agencies such as VDE, UL, CSA, FIMKO, and BSI
- Offer wide range of CTR and package types in selected product groups
- Provide high I/O isolation
- Contribute to superior performance and reliability

KEY FEATURES

- Ambient Temperature Range, 110 °C
- Isolation Test Voltage, up to 5300 V_{RMS}
- High Collector-Emitter Voltage, 70 V
- Space saving packages are available in selected product groups

APPLICATIONS

- AC Power Supply Adapters
- Switchmode Power Supply (SMPS)
- Home Appliance
- Industrial Control and Automation
- Personal Computers and Peripherals

110 °C OPTOCOUPLER TYPE RANGE AND CHARACTERISTICS

Package Description	Device Type	V _{ISO} (V _{RMS})	CTR at I _F (Min) (%)	CTR at I _F (Max) (%)	I _F (Test) (mA)	V _{CEO} (V)	Ambient Temperature Range
DIP-4	SFH1617A-1	5300	40	80	10	70	-55 to 110 °C
	SFH1617A-2	5300	63	125	10	70	-55 to 110 °C
	SFH1617A-3	5300	100	200	10	70	-55 to 110 °C
	SFH1617A-4	5300	160	320	10	70	-55 to 110 °C
	TCET1110	5000	50	600	5	70	-55 to 110 °C
	TCET1111	5000	40	80	10	70	-55 to 110 °C
	TCET1112	5000	63	125	10	70	-55 to 110 °C
	TCET1113	5000	100	200	10	70	-55 to 110 °C
	TCET1114	5000	160	320	10	70	-55 to 110 °C
	TCET1115	5000	50	150	5	70	-55 to 110 °C
	TCET1116	5000	100	300	5	70	-55 to 110 °C
	TCET1117	5000	80	160	5	70	-55 to 110 °C
	TCET1118	5000	130	260	5	70	-55 to 110 °C
TCET1119	5000	200	400	5	70	-55 to 110 °C	
SOP-4, Miniflat 100 mil lead pitch	SFH1690ABT	3750	50	300	5	70	-55 to 110 °C
	SFH1690AT	3750	50	150	5	70	-55 to 110 °C
	SFH1690BT	3750	100	300	5	70	-55 to 110 °C
	SFH1690CT	3750	100	200	5	70	-55 to 110 °C
SOP-6L4	TCLT1010	5000	50	600	5	70	-40 to 110 °C
	TCLT1012	5000	63	125	10	70	-40 to 110 °C
	TCLT1013	5000	100	200	10	70	-40 to 110 °C
	TCLT1015	5000	50	150	5	70	-40 to 110 °C

Package Description	Device Type	V _{ISO} (V _{RMS})	CTR at I _F (Min) (%)	CTR at I _F (Max) (%)	I _F (Test) (mA)	V _{CEO} (V)	Ambient Temperature Range
SOP-6L4 (Continued)	TCLT1016	5000	100	300	5	70	-40 to 110 °C
	TCLT1017	5000	80	160	5	70	-40 to 110 °C
	TCLT1018	5000	130	260	5	70	-40 to 110 °C
	TCLT1019	5000	200	400	5	70	-40 to 110 °C
SOP-6L5	TCLT1110,	5000	50	60	5	70	-40 to 110 °C
	TCLT1112,	5000	63	125	10	70	-40 to 110 °C
	TCLT1113,	5000	100	200	10	70	-40 to 110 °C
	TCLT1114,	5000	160	320	10	70	-40 to 110 °C
	TCLT1115,	5000	50	150	5	70	-40 to 110 °C
	TCLT1116,	5000	100	300	5	70	-40 to 110 °C
	TCLT1117,	5000	80	160	5	70	-40 to 110 °C
	TCLT1118,	5000	130	260	5	70	-40 to 110 °C
	TCLT1119	5000	200	400	5	70	-40 to 110 °C
DIP-6	CNY117-1	5300	40	80	10	70	-55 to 110 °C
	CNY117-2	5300	63	125	10	70	-55 to 110 °C
	CNY117-3	5300	100	200	10	70	-55 to 110 °C
	CNY117-4	5300	160	320	10	70	-55 to 110 °C
	CNY117F-1	5300	40	80	10	70	-55 to 110 °C
	CNY117F-2	5300	63	125	10	70	-55 to 110 °C
	CNY117F-3	5300	100	200	10	70	-55 to 110 °C
	CNY117F-4	5300	160	320	10	70	-55 to 110 °C
DIP-8	6N1135	5300	5	-	16	15	-55 to 110 °C
	6N1136	5300	15	-	16	15	-55 to 110 °C
	ILD1615-1	5300	40	80	10	70	-55 to 110 °C
	ILD1615-2	5300	63	125	10	70	-55 to 110 °C
	ILD1615-3	5300	100	200	10	70	-55 to 110 °C
	ILD1615-4	5300	160	320	10	70	-55 to 110 °C
SOIC-8	IL1205AT	4000	40	80	10	70	-55 to 110 °C
	IL1206AT	4000	63	125	10	70	-55 to 110 °C
	IL1207AT	4000	100	200	10	70	-55 to 110 °C
	IL1208AT	4000	160	320	10	70	-55 to 110 °C
	ILD1205T	4000	40	80	10	70	-55 to 110 °C
	ILD1206T	4000	63	120	10	70	-55 to 110 °C
	ILD1207T	4000	100	200	10	70	-55 to 110 °C
	ILD1211T	4000	20	-	10	70	-55 to 110 °C
	ILD1213T	4000	100	-	10	70	-55 to 110 °C
	ILD1217T	4000	100	-	1	70	-55 to 110 °C
DIP-16	ILQ1615-1	5300	40	80	10	70	-55 to 110 °C
	ILQ1615-2	5300	63	125	10	70	-55 to 110 °C
	ILQ1615-3	5300	100	200	10	70	-55 to 110 °C
	ILQ1615-4	5300	160	320	10	70	-55 to 110 °C



SEMICONDUCTORS:

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