Cliff Electronic Components Ltd.
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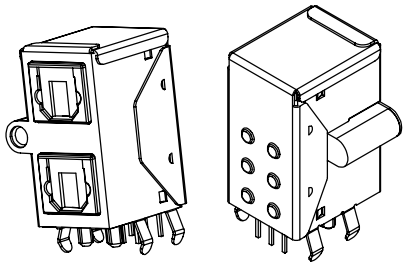
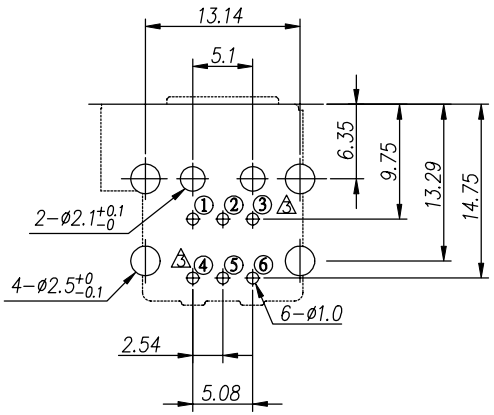
Redhill, Surrey, RH1 2PF, England, UK
Tel: 01737-771375 Fax: 01737-766012 Website: www.cliffuk.co.uk

HISTORY X COUNT	DATE (YYYY.MM.DD)	ECN NO.	REV.	REVISION	SIGN.
△2 X2	2006.07.04	N067004	1.2	Modify table	劉銘宗
△3 X2	2007.05.03	N075002	1.3	Layout balloon no. change	劉銘宗
△4 X1	2007.07.30	N077040	1.4	Add new product 0813D*003	劉銘宗

D-045

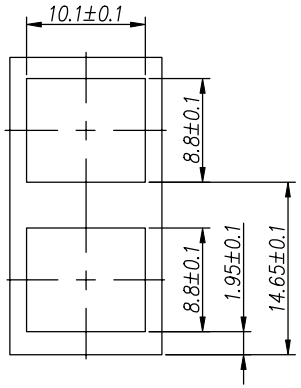


3D VIEW
(Reference)

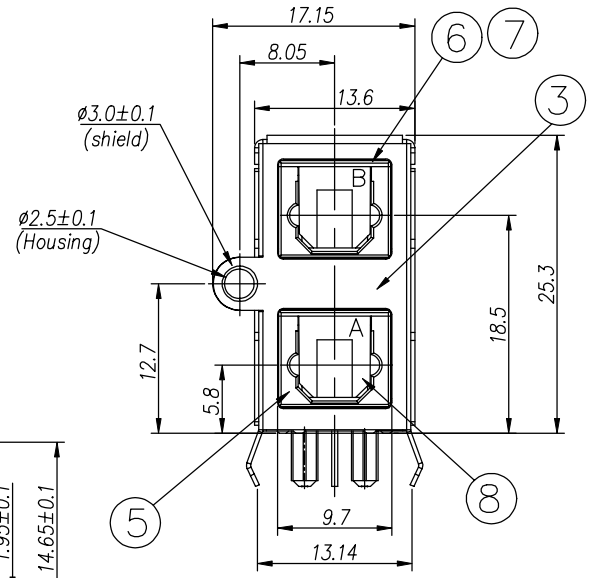


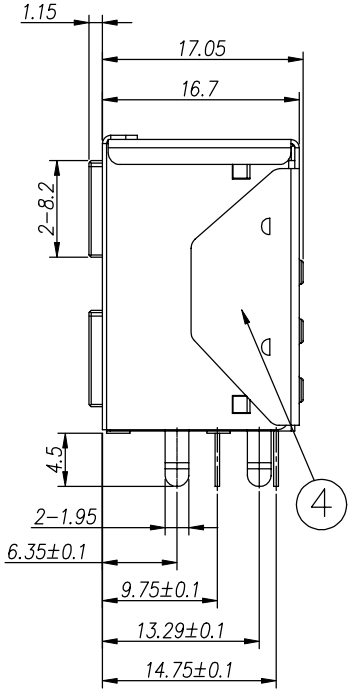
TOL:±0.1

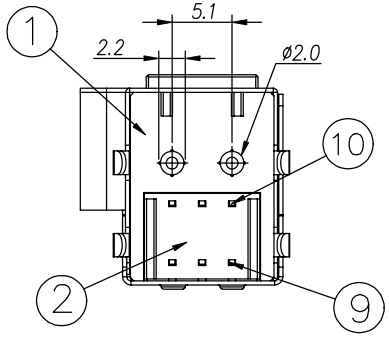
BOTTOM VIEW



Panel Layout
(Reference)







	Receiver		Transmitter	
Vcc	①	Vin	④
GND	②	Vcc	⑤
Vout	③	GND	⑥

△4

NO.	PRODUCT NO.	NO.	I.C.	COVER COLOR	REMARK
4		B	Transmiter	BLACK	L=24.1
		A	Receiver	BLACK	L=8.85
3					
2					
1					

△2

NO.	PART NAME	Q'TY	PART NO.	MATERIAL	PLATED/COLOR	REMARK
10	IC	1				See Table
9	IC	1				See Table
8	COVER	2		NYLON	See Table	
7	SPRING	1		SWPA	BLACK	ø=0.25
6	TOP COVER	2		NYLON	BLACK	
5	INNER CYLINDER	2		NYLON	BLACK	
4	BACK COVER-2	1		C2680R-H	BRIGHT Sn:3~4μm	t=0.35
3	FRONT COVER-1	1		C2680R-H	BRIGHT Sn:3~4μm	t=0.35
2	BACK COVER	1		P.B.T	BLACK	
1	BODY	1		P.B.T	BLACK	

NOTICE	PLATED/COLOR	ANGLE TOL.	SCALE		SIZE
	See Table	±2°	2 : 1		A3
	THICKNESS ----	TOLERANCE ±0.3	UNIT mm	SPECIFICATION	
	MATERIAL See Table	ANGLE 3rd	ORIGINAL DATE (YYYY.MM.DD) 2005.08.18	PART NAME OPTICAL CONNECTOR (Receiver & Transmitter)	REV. 1.4
	DESIGNED	DRAWN 劉 2007.7.30 銘宗	CHECKED 游 2007.7.30 大成	APPROVED 游 2007.7.30 大成	PART NUMBER FC6842135TR	SHEET 1/1

4. Rated

4-1 Temperature and humidity range for using: -25~70℃, 85% RH max.

4-2 Temperature and humidity range for storage: -40~70℃, 85% RH max

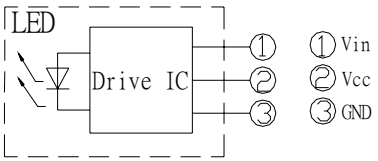
4-3 Supply voltage:-0.5 to 7V

4-4 Input voltage:-0.5 to Vcc +0.5V

4-5 Operating voltage:2.75 to 5.25V

4-6 Signal transmission speed:16Mbps

Internal equivalent circuit



5. Status of testing

5-1 Standard condition

All measurement and tests shall be made at temperature of 15~35℃ and relative humidity of 25~80%, air pressure of 86~106kPa.

If the justification has problem, at temperature 20±2℃ and relative humidity of 60~70%, air pressure of 86~106kPa.

5-2 After testing

In test room at temperature of 15~35±1℃ and relative humidity of 75~77%, air pressure of 86~106kPa.

REV.	NAME	DATE	REMARK	APVD	CHKD	CHKD	WRTN
				陳 94.10.5 必達	游 94.10.5 大成	游 94.10.5 竹盛	簡 94.10.5 秀陵

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Low level input voltage	V_{iL}	Refer to Fig.2	-	-	0.8	V
Low → High delay time	t_{pLH}	Refer to Fig.3	-	-	120	ns
High → Low delay time	t_{pHL}	Refer to Fig.3	-	-	120	ns
Pulse width distortion	Δtw	Refer to Fig.3	-25	-	25	ns
Jitter	Δtj	Refer to Fig.3	-	-	20	ns

7. Mechanical efficiency

No.	Item		Test method	Character
7-1	Mating force	OPTO conn.	As Fig.4, use adapted gauge plug for testing.	39.2N max
7-2	Withdrawal force	OPTO conn.	As Fig.4, use adapted gauge plug for testing.	5.9N to 39.2N
7-3	Durability	OPTO conn.	As Fig.1, use adapted gauge plug for testing, 500cycles insertion and withdrawal.	Satisfy with 7-1,7-2 and the outlook without breakdown or unnormal.
7-4	Chape test		After inserting a plug (as Fig.4) for the test. It gains 5 second of upper and lower either side torque of 1N five times.	To be mated without mechanical abnormality.
7-5	Vibration resistance		The test sample is soldered on the P.W.B.. And then the simple vibration which change from 10 to 55 H2, amplitude 0.75mm per minutes. Shall be applied to each of the X,Y and Z axis for 2h (a total of 6 hours)	Plug and receptacle shall not be come off during test.

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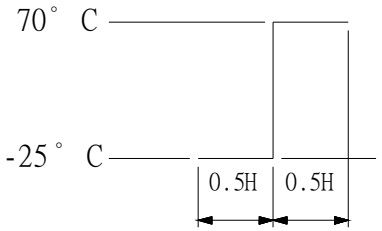
		ambient conditions for 1.5~2hours.	Satisfy with 7-1,7-2 the outlook without unnormal. (OPTO)
8-2	Temperature cycling test	Take forth and back cycles 5 times form the adapted plug and jack. Upon completion of above process for 1.5~2 hours. Execute the temperature testing as following. 	
8-3	Dry heat	The test sample shall be left at a temperature of 70±2℃ for 240h. And then it shall be kept under standard atmospherics condition for 1h, after which measurement shall be made. (Refer to JIS C 0021)	Satisfy with 7-1,7-2 the outlook without unnormal. (OPTO)
8-4	Cold	The test sample shall be left at a temperature of -25±3℃ of 240h. And then it shall be kept under standard atmospheric condition for 1h, after which measurement shall be made.	

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8-6	Resistance to soldering heat	Immersion depth: Up to the surface of the board. Thickness of printed wiring board: 1.6mm Material : Dimensions of component holes in the printed wiring board shall be in accordance with those specified in this specification. Soldering iron method Bit temperature : 380 ±10℃ Application of soldering iron : 3^{+1}_{-0} sec However, excessive pressure shall not be applied to the terminal.	Satisfy with 7-1,7-2 the outlook without unnormal. (OPTO)

Remark: If the jack with “switch,,, the out connector plug test is also used.

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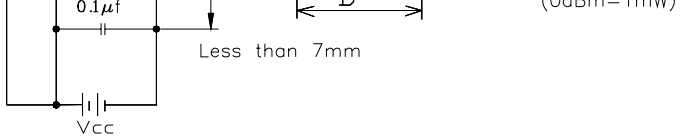
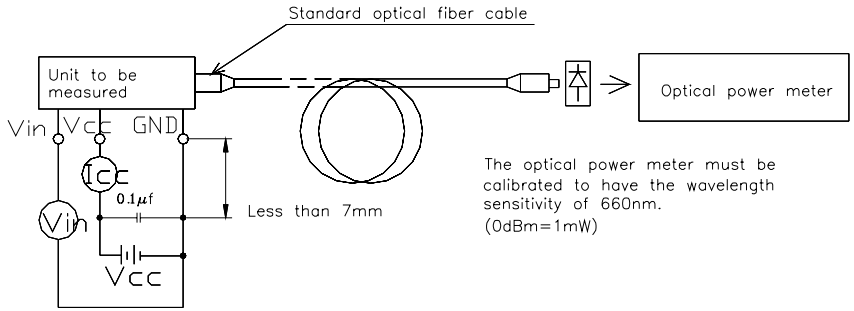


Notes: (1) OC-08 Vcc=3.0V (State of operating).
(2) To bundle up the standard fiber optic cable, make it into a loop with the diameter D=10cm or more. (The standard fiber optic cable will be specified elsewhere.)

Fig.2 Measuring Method of Input Voltage and Supply Current.



Input conditions and judgment method.

Condition	Judgment method
V_{in}=2.1V or more.	-21≦Pc≦-15dBm, Icc=13mA or less.
V_{in}=0.8V or less.	Pc≦-36dBm, Icc=13mA or less.

Note) Vcc=3.0V (State of operating).

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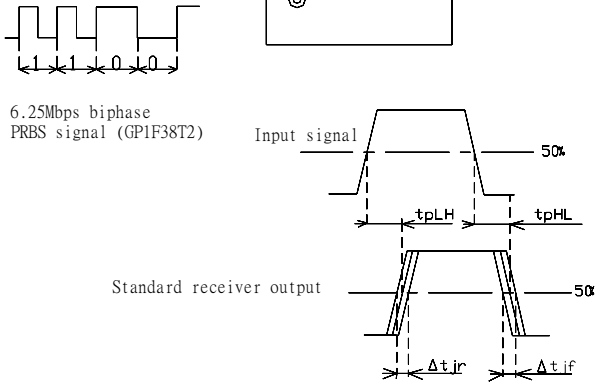

Test item

Test item	Symbol	Test condition
Low → High pulse delay time	t_{PLH}	Refer o the above prescriptions
High → Low pulse delay time	t_{PHL}	Refer to the above prescriptions
Pulse width distortion	Δtw	$\Delta tw=t_{PHL}-t_{PLH}$
Low → High Jitter	Δtjr	Set the trigger on the rise of input signal to measure the jitter of the rise of output
High → Low Jitter	Δtjf	Set the trigger on the fall of input signal to measure the jitter of the rise of output

Notes: (1) The waveform write time shall be 4 seconds. But do not allow the waveform to be distorted by increasing the brightness too much.
(2) Vcc=3.0V (State of operating)
(3) The probe for the oscilloscope must be more than 1MΩ and less than 10pF.

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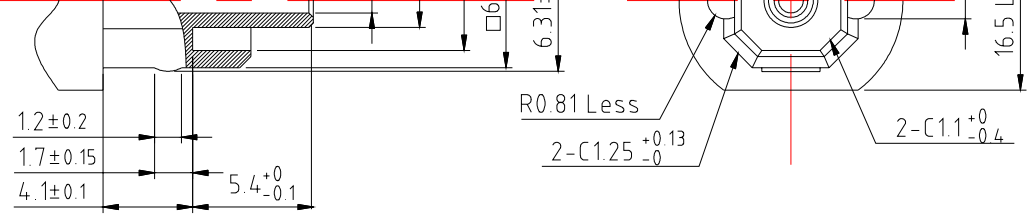

Unit:mm

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(12.5Mbps NRZ signal)

1. Maximum Ratings (Ta=25℃)

Parameter	Symbol	Rating	Unit
Storage Temperature	T_{stg}	-40 ~ 70	℃
Operating Temperature	T_{opr}	-20 ~ 70	℃
Supply Voltage	Vcc	-0.5 ~ 6	V
High Level Output Current	I_{OH}	-1	mA
High Level Output Current	I_{OL}	5	mA
Soldering Temperature	Tsol	260 (1)	℃

Note (1): Soldering time ≦10 seconds (At a distance of 1mm from the package.)

2. Recommended Operating Conditions

Parameter	Symbol	MIN.	TYP.	MAX.	Unit
Supply Voltage	Vcc	4.75	5.0	5.25	V

				APVD	陳 92.4.9 文昌	CHKD		CHKD	李 92.4.7 宗暉	WRTN	張 92.4.4 榆珮
REV.	NAME	DATE	REMARK								

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		Using OC0805T				
Maximum Receivable Power	P_{MAX}	12.5Mb/s, Using APF	-	-	-14.5	dBm
Minimum Receivable Power	P_{MIN}	12.5Mb/s, Using APF	-24	-	-	dBm
Current Consumption	I_{CC}		-	15	40	mA
High Level Output Voltage	V_{OH}		2.4	4.8	Vcc	V
Low Level Output Voltage	V_{OL}		-	0.2	0.4	V
Rise time	t_r	Refer to “Test Circuit„	-	10	20	ns
Fall time	t_f	Refer to “Test Circuit„	-	10	20	ns
Low→High delay time	t_pLH	Refer to “Test Circuit„	-	100	180	ns
High→Low delay time	t_pHL	Refer to “Test Circuit„	-	100	180	ns

Note (2): When non-modulated signal (optical all high or all low level signal) is inputted, output signal is not stable.
When modulated optical high level signal is received, output signal is high.
When modulated optical low level signal is received, output signal is low.
The duty factor must be maintained between 25 to 75%.

Note (3): All Plastic Fiber (970 / 1000μm).

Note (4): Between input of transmitting module and output of OC0805T.

4. Mechanical Characteristics (Ta= 25℃)

4-1

Parameter	Condition	MIN.	TYP.	MAX.	Unit
Insertion Force.	Using JYE TAI OC-0801P,	-	-	40	N
Withdrawal Force.	Initial value	4	-	40	N
Torque for Self-Tap	Using self-tapping Screw (TP3×8)	58.8	-	78.4	N · cm

				APVD		CHKD		CHKD		WRTN	
					陳 92.4.9 文昌				李 92.4.7 宗暉		張 92.4.4 榆珮
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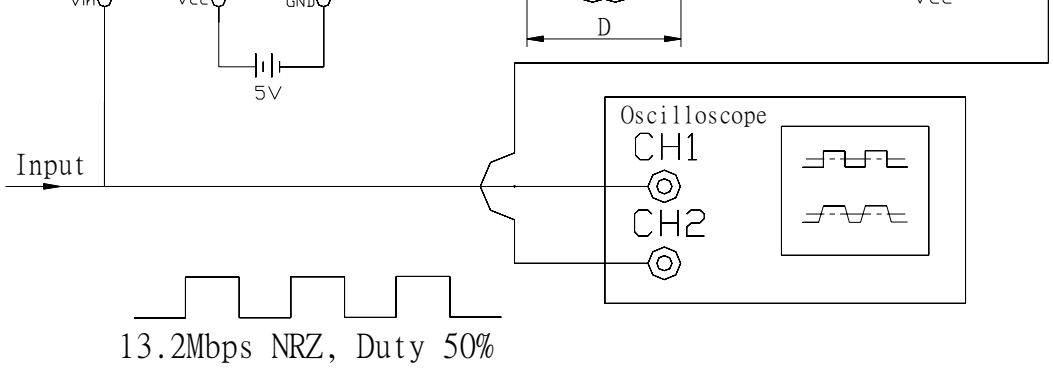
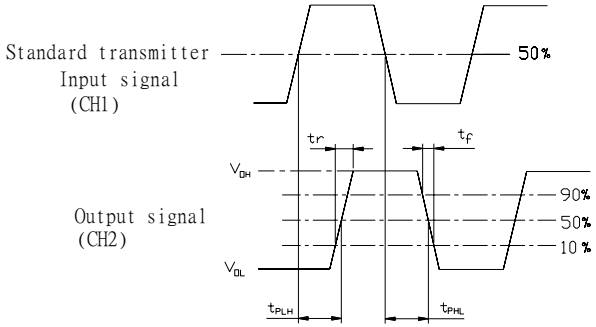


13.2Mbps NRZ, Duty 50%

Test item

Test item	Symbol
Low → High pulse delay time	t_{PLH}
High → Low pulse delay time	t_{PHL}
Rise time	t_r
Fall time	t_f
Pulse width distortion △ tw = t_{PHL} - t_{PLH}	△ tw
High level output voltage	V_{OH}
Low level output voltage	V_{OL}



Notes:

1) Vcc: 5V (State of operation)
2) To bundle up the standard fiber optic cable. Mark it into a loop with the diameter D=10cm.

REV.	NAME	DATE	REMARK	APVD	CHKD	CHKD	WRTN
				陳 92.4.9 文昌		李 92.4.7 宗暉	張 92.4.4 榆珮

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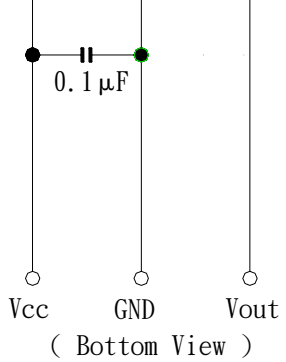

6. Required Optical Fiber with Fiber Optic Connectors

REV.	NAME	DATE	REMARK	APVD	CHKD		CHKD		WRTN	
					陳 92.4.9 文昌			李 92.4.7 宗暉		張 92.4.4 榆珮

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(2) Soldering

Optical modules are comprised of internal semiconductor devices. However, in principle, optical modules are optical components. During soldering, ensure that flux does not contact with the emitting surface or the detecting surface. Also ensure that proper flux removal is conducted after soldering.

Some optical modules come with a protective cap. The protective cap is used to avoid malfunction when the optical module is not in use. Note that it is not dust or waterproof.

As mentioned before, optical modules are optical components. Thus, in principle, soldering where there may be flux residue and flux removal after soldering is not recommended. **CLIFF** recommend that soldering be performed without the optical module mounted on the board. Then, after the board has been cleaned, the optical module should be soldered on to the board manually.

If the optical module cannot be soldered manually, use non-halogen (chlorine-free) flux and make sure, without cleaning, there is no residue such as chlorine. This is one of the ways to eliminate the effects of flux. In such a cases, be sure to check the devices' reliability.

(3) Noise resistance

It is believed that the use of optical transfer devices improve noise resistance. In theory, optical fiber is not affected by noise at all. However, receiving modules which handle signals whose level is extremely small, are susceptible to noise.

The optical module is to be used in an area which is susceptible to radiated noise, increase the shielding by covering the optical module and the power line filter with a metallic cover.

				APVD	陳 92.4.9 文昌	CHKD		CHKD	李 92.4.7 宗暉	WRTN	張 92.4.4 榆珮
REV.	NAME	DATE	REMARK								

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The jack has support pins in order to fix itself to the PCB temporary. Please make the hole for these pins in the PCB under the condition described in board layout hole pattern.

(6) Panel attachment

jack has hole for panel attachment. Please be sure to attach it to panel with self-tapping screw.

(7) Solvent

When using solvent for flux removal, do not use a high acid or high alkali solvent. Be careful not to pour solvent in to the optical connector ports. If solvent is inadvertently poured in to them, clean it off using cotton tips.

(8) Supply voltage

Use the supply voltage within the recommended operating condition (Vcc = 5±0.25V). Make sure that supply voltage does not exceed the maximum rating value of 7V, even for an instant.

(9) Interface

The jack has a TTL interface. It can be interfaced with any TTL-compatible C-MOS IC.

(10) Output

If the receiver output is at low and is connected to the power supply, or if the output is high and is connected to GND, the internal IC may be destroyed.

(11) Soldering condition

Solder at 260℃ or less for no more than ten seconds.

(12) Repeated operation:

Inserting and withdrawing shall be made at a speed of 20 times or less/min using mating plug (Refer to clause 4). 500 times.

(13) Precautions when disposing of devices and packing materials.

When disposing devices and packing materials, follow the procedures stipulated by local regulations in order to protect the environment against contamination.

				APVD	陳 92.4.9 文昌	CHKD		CHKD	李 92.4.7 宗暉	WRTN	張 92.4.4 榆珮
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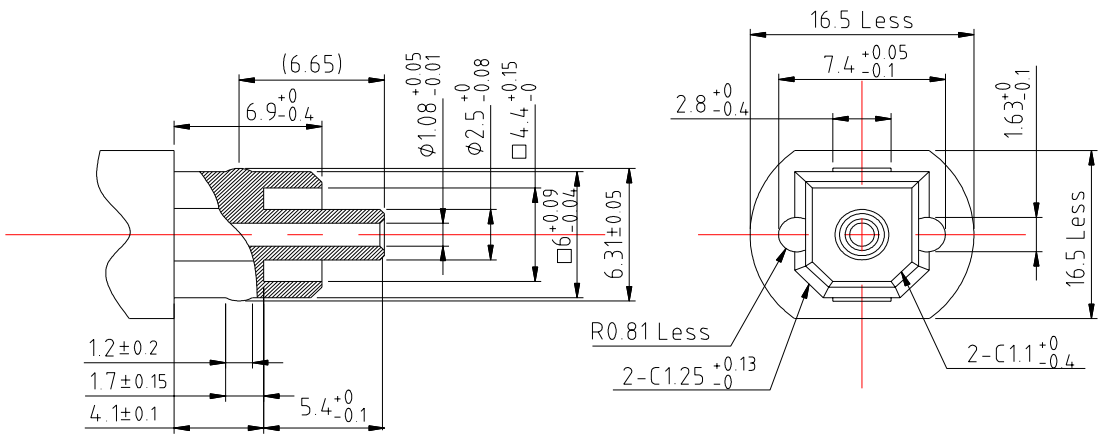
damage to property.

Mating plug



Unit:mm

				APVD	陳 92.4.9 文昌	CHKD		CHKD	李 92.4.7 宗暉	WRTN	張 92.4.4 榆珮
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Heavy metals	Lead in the plastic,rubber,paints,ink	Less 50ppm
	Mercury and mercury compounds	
	Hexavalent chromium compounds	
	Nickel and Nickel compounds (at present only ASUS and Silitek)	
Chlorinated organic compounds	Polychlorinated biphenyls (PCB)	
	Polychlorinated naphthalenes (PCN)	
	Short-chain chlorinated paraffins (SCCP)	
	Polychlorinated terphenyls (PCT)	
	Other chlorinated organic compounds	
Brominated organic compounds	Polybrominated biphenyls (PBB)	
	Polybrominated diphenylethers (PBDE)(including decabromodiphenyl ether [DecaBDE])	
	Other brominated organic compounds	
Organic tin compounds (tributy tin compounds, Triphenyl tin compounds)		
Asbestos		
Specific azo compounds		
Formaldehyde		
Polyvinyl chloride (PVC) and PVC blends		
Foaming cushion material (EPS、EPE、EPP)		

				APVD	CHKD		CHKD		WRTN	
				邱 2009.4.20 信榮			林 2009.4.20 美曲		簡 2009.4.20 秀陵	
REV.	NAME	DATE	REMARK							

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Specific benzotriazole
Cobalt dichloride
Ozone depleting substance (ODS)

4. Allowable concentrations:
   Less than 90ppm is determined as an allowable total-concentration of four heavy metals (mercury, cadmium, hexavalent chromium, and lead). Less than 5ppm is determined as an allowable cadmium-concentration in a plastic (including rubber) part.

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Dielectric Strength (kV/mm): **33** Volume Resistivity (10^x ohm-cm) : **14**

ANSI/UL 94 small-scale test data does not pertain to building materials, furnishings and related contents. ANSI/UL 94 small-scale test data is intended solely for determining the flammability of plastic materials used in the components and parts of end-product devices and appliances, where the acceptability of the combination is determined by UL.

Report Date: 1991-01-11
Last Revised: 2003-10-24

Underwriters Laboratories Inc®

IEC and ISO Test Methods

Test Name	Test Method	Units	Thickness Tested (mm)	Value
Flammability	IEC 60695-11-10	Class (color)	0.75	V-0 (ALL)
			1.5	V-0 (ALL)
			3.0	V-0 (ALL)
Glow-Wire Flammability (GWFI)	IEC 60695-2-12	C	-	-
Glow-Wire Ignition (GWIT)	IEC 60695-2-13	C	-	-
IEC Comparative Tracking Index	IEC 60112	Volts (Max)	-	-
IEC Ball Pressure	IEC 60695-10-2	C	-	-
ISO Heat Deflection (1.80 MPa)	ISO 75-2	C	-	-
ISO Tensile Strength	ISO 527-2	MPa	-	-
ISO Flexural Strength	ISO 178	MPa	-	-
ISO Tensile Impact	ISO 8256	kJ/m^2	-	-
ISO Izod Impact	ISO 180	kJ/m^2	-	-
ISO Charpy Impact	ISO 179-2	kJ/m^2	-	-

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High-Voltage Arc Tracking Rate (HVTR):	**0**	High Volt, Low Current Arc Resis (D495):	**6**
Dielectric Strength (kV/mm):	**13**	Volume Resistivity (10^x ohm-cm) :	**14**

(+) - Virgin and regrind up to 50% by weight inclusive, have the same basic material characteristics.

(f1) - Suitable for outdoor use with respect to exposure to Ultraviolet Light, Water Exposure and Immersion in accordance with UL 746C.

NOTE - (1) Material designations that are color pigmented may be followed by suffix letters and numbers. (2) Material designations may be prefixed by "ZYT" for Zytel or "MIN" for Minlon or "ZEN" for Zenite or "DEL" for Delrin or "CRA" for Crastin or "RYN" for Rynite or "THX" for Thermx or "ETPV" for ETPV grades.

ANSI/UL 94 small-scale test data does not pertain to building materials, furnishings and related contents. ANSI/UL 94 small-scale test data is intended solely for determining the flammability of plastic materials used in the components and parts of end-product devices and appliances, where the acceptability of the combination is determined by UL.

Report Date: 1996-07-29
Last Revised: 2004-09-15

Underwriters Laboratories Inc®

IEC and ISO Test Methods

Test Name	Test Method	Units	Thickness Tested (mm)	Value
Flammability	**IEC 60695-11-10**	**Class (color)**	**0.71**	**V-2 (ALL)**
			1.5	**V-2 (ALL)**
			3.0	**V-2 (ALL)**
			6.0	**V-2 (ALL)**
Glow-Wire Flammability (GWFI)	**IEC 60695-2-12**	**C**	**0.71**	**960**
			1.5	**960**
			3.0	**960**
			6.0	**960**
Glow-Wire Ignition (GWIT)	**IEC 60695-2-13**	**C**	**0.71**	**725**
			1.5	**750**
			3.0	**800**
			6.0	**800**
IEC Comparative Tracking Index	**IEC 60112**	**Volts (Max)**	**-**	**-**
IEC Ball Pressure	**IEC 60695-10-2**	**C**	**-**	**-**
ISO Heat Deflection (1.80 MPa)	**ISO 75-2**	**C**	**-**	**-**
ISO Tensile Strength	**ISO 527-2**	**MPa**	**-**	**-**
ISO Flexural Strength	**ISO 178**	**MPa**	**-**	**-**
ISO Tensile Impact	**ISO 8256**	**kJ/m^2**	**-**	**-**
ISO Izod Impact	**ISO 180**	**kJ/m^2**	**-**	**-**
ISO Charpy Impact	**ISO 179-2**	**kJ/m^2**	**-**	**-**

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Dielectric Strength (kV/mm): **22** Volume Resistivity (10^x ohm-cm) : **16**

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Report Date: 1996-08-06
Last Revised: 2003-10-24

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IEC and ISO Test Methods

Test Name	Test Method	Units	Thickness Tested (mm)	Value
Flammability	**IEC 60695-11-10**	**Class (color)**	**0.71**	**HB75 (ALL)**
			1.5	**HB75 (ALL)**
			3.0	**HB40 (ALL)**
Glow-Wire Flammability (GWFI)	**IEC 60695-2-12**	**C**	**0.71**	**650**
			1.5	**650**
			3.0	**800**
Glow-Wire Ignition (GWIT)	**IEC 60695-2-13**	**C**	**0.71**	**675**
			1.5	**675**
			3.0	**675**
IEC Comparative Tracking Index	**IEC 60112**	**Volts (Max)**	**-**	**-**
IEC Ball Pressure	**IEC 60695-10-2**	**C**	**-**	**-**
ISO Heat Deflection (1.80 MPa)	**ISO 75-2**	**C**	**-**	**-**
ISO Tensile Strength	**ISO 527-2**	**MPa**	**-**	**-**
ISO Flexural Strength	**ISO 178**	**MPa**	**-**	**-**
ISO Tensile Impact	**ISO 8256**	**kJ/m^2**	**-**	**-**
ISO Izod Impact	**ISO 180**	**kJ/m^2**	**-**	**-**
ISO Charpy Impact	**ISO 179-2**	**kJ/m^2**	**-**	**-**

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