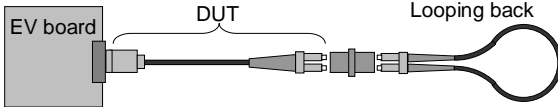
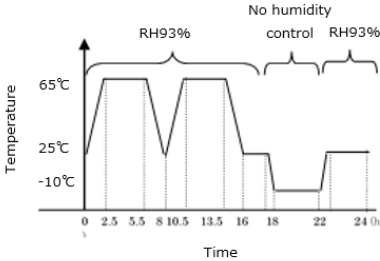


Operating condition	Storage temperature range (before unpacking)	-10 to +60 [deg. C] (40 to 75%RH)	Storage temperature range(after mounting, but not operating)	-40 to +85 [deg. C] (85%RH MAX) No freezing and condensing			
	Operating temperature range	-10 to +60 [deg. C] (85%RH MAX) No freezing and condensing	Characteristic impedance	Differential 100 [ohm]			
	Input signal IF	SLVS-200	ACTIVATE voltage	1.0 to 3.6V			
	Input signal voltage	Differential voltage 200 to 1400 mVp	Input power voltage	3.0 to 3.6V (typ 3.3V)			
	Suitable connector	(BF4-IR2) BF4-IR2-16P-0.5SH, (LCD) Duplex-LC adapter					
SPECIFICATIONS							
ITEM		TEST METHOD		REQUIREMENTS		QT	AT
CONSTRUCTION							
Dimension, Construction and Finishing		Check visually and measure dimension with dimension measurement instrument.		According to the drawing		X	X
Marking		Check visually.				X	X
ELECTRIC CHARACTERISTICS							
Data rate performance		Measure eye diagram when input differential 200mVp signal.		No mask hit at 0.05 to 6.25 Gbps(The mask should be similar to standard Ethernet mask)		X	-
		Measure eye diagram during VDD=3.3V and input 6.25Gbps PRBS7 differential 200mVp signal.		No mask hit(The mask should be similar to standard Ethernet mask)		X	X
							
Signal detect (OE-SDn)		Shall be turned OE-SDn=Low when EO-ACT=High. (Same measurement method as "Data rate")		OE-SDn voltage -0.3 to 1.0V		X	X
ACT detect (EO-ACTn)		Shall be turned EO-ACTn=Low when TX is in active mode.		EO-ACTn voltage -0.3 to 1.0V		X	X
Bit error rate (BER)		Measure BER with BERT during input VDD=3.3V and differential 6.25Gbps PRBS7 200mVp signal.		< 1 X 10 ⁻¹²		X	-
Power consumption		Measure current by digital multimeter during operating condition at VDD=3.3V.		≤ 160mW		X	-
Output signal voltage		Shall be checked by eye diagram when input 6.25Gbps PRBS7 differential 200mVp signal.		160 to 330mVp		X	X
OPTICAL CHARACTERISTICS							
Insertion loss (IL)		Measure insertion loss (LC) before termination of BF4-IR2. (HRS check IL in production process, not in final inspection)		≤ 0.5dB		X	X
				</			

ITEM	TEST METHOD	REQUIREMENTS	QT	AT
OPTICAL CHARACTERISTICS				
LED light emission (Green)	Apply V=3.0 to 3.6V at the pin, then check if LED light is visible or not.	Green light shall be visible	X	X
LED light emission (Amber)	Apply V=3.0 to 3.6V at the pin, then check if LED light is visible or not.	Amber light shall be visible	X	X
MECHANICAL CHARACTERISTICS				
Mating Durability	(BF4-IR2) 1000 cycles of mating and unmating with BF4-IR2 socket.	No looseness, breakage and cracks (Visual and data transmission check before and after test)	X	-
	(LC) 100 cycles of mating and unmating with LC adapter.		X	-
Vibration	Vibration for 2 hours in 3 directions, at an amplitude of 1.5mm with the frequency range 10 to 55 [Hz].		X	-
Shock	3 times and 3 directions with the acceleration 490 [m/s ²] in duration 11ms.		X	-
Fiber clamping strength	Loading tensile force to the fiber until break for same direction with fiber exit.	> 10N	X	-
ENVIRONMENTAL CHARACTERISTICS				
Transportation and storage temperature and humidity test	Applying temperature and humidity load as below Before test measurement 23 deg.C Cold test -20 deg.C (soak time: 72hours) Intermediate measurement 23 deg.C Damp heat test +60 deg.C, 90%Rh (soak time: 72hours) After test measurement 23 deg.C	No looseness, breakage and cracks (Visual and data transmission check before test, intermediate test and after test)	X	-
Temperature cycling test	-40 to 85 degree Celsius with dwell time of 10min, 100 cycles		X	-
High temperature storage	85 degree Celsius, 1000 hours		X	-
Low temperature storage	-40 degree Celsius, 1000 hours		X	-
Temperature and Humidity cycling	Temperature, Humidity: 10 ⇄ 65 degree Celsius, 93%RH w/o applying current. Number of cycle: 10 cycles, Cycle time: 24 hours/cycle 		X	-
ESD tolerance	(BF4-IR2) Applied voltage 2kV (Human Body Model)		X	-
Note QT:Qualification Test AT:Assurance Test X:Applicable Test		DRAWING NO.	ELC-392031-00-00	
HRS	SPECIFICATION SHEET	PART NO.	BF4-IR2LCD-01-3M	
	HIROSE ELECTRIC CO., LTD.	CODE NO	CL0831-1283-0-00	2/2