	Storage temperature range (before unpacking) Operating temperature range		-10 to +60 [deg. C] (40 to 75%RH		Storage te range(afte but not op	r mount	ina	-40 to +85 [deg. C] (85%RH MA) No freezing and condensing		
Operating condition			-10 to +60 [deg. C] (85%RI No freezing and condensin		Characteri	stic	Diffe	Differential 100 [ohm]		
	Input signal IF		SLVS-200	'9	ACTIVATE v		e 1.0	1.0 to 3.6V		
	Input signal voltage									
	Suitable connector									
			SPECI	FICAT	FIONS					
			TEST METHOD				REQL	JIREMENTS	QT	A
CONST			sually and measure dimension	n with dim	ension	Accord	ing to the	drawing	Х	\ \
and Finishir		measure	measurement instrument.							Х
Marking			Check visually. CTERISTICS						Х	
						NI				1
Data rate pe	erformance	e Measure signal.	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)			.
			eye diagram during VDD=3.3 s PRBS7 differential 200mVp		ut		sk hit(The dard Ether	mask should be similar net mask)	Х	>
		EV	board	、 (	Looping bac	k				
					$\prec$	)				
Signal dete	ct (OE-SDr		Shall be turned OE-SDn=Low when EO-ACT=High. (Same ( measurement method as "Data rate")				OE-SDn voltage -0.3 to 1.0V			>
ACT detect (EO-ACTn)		i) Shall be	Shall be turned EO-ACTn=Low when TX is in active mode.				EO-ACTn voltage -0.3 to 1.0V			>
Bit error rate (BER)			Measure BER with BERT during input VDD=3.3V and differential 6.25Gbps PRBS7 200mVp signal.			< 1 X 10 <sup>-12</sup>			x	-
Power cons	umption		Measure current by digital multimeter during operating condition at VDD=3.3V.			≦160mW			х	-
Output sign	al voltage		Shall be checked by eye diagram when input 6.25Gbps PRBS7 differential 200mVp signal.				160 to 330mVp			>
OPTICA	L CHAF	RACTERIS	TICS							
Insertion los	ss (IL)		insertion loss (LC) before terr (HRS check IL in productior n)			≤ 0.5dE	3		x	>
	T	DESCRIPTI	ON OF REVISIONS	C	DESIGNED	<u> </u>		CHECKED	DA	TE
0 0										
REMARK		h a ah a a a a	and the second the state of the second state of the				APPROVE			121
		•	necked by mating with suitable receptacle connector on evented by the suitable receptacle connector on evented by a subscription of the subscripti						2022120	
	,	•	t is based on using BF4MC type in BF4-IR2.			μ			2022	
					DRAWN SK.AOYAMA DRAWING NO. ELC-392030			2022		
	zuaiiiiCatiO	,							-00-	00
RS		SPECIFICATION SHEET HIROSE ELECTRIC CO., LTD.			ART NO.	BF4-IR2LCD-01-2M			$\wedge$	1/2
			LECTRIC CO., LTD. CODE NO.			CL0831-1282-0-00			<u>′ ′ ∖</u>	1//

FORM HD0011-2-1

	SPECIFICA	ATIONS			
ITEM	TEST METHOD		REQUIREMENTS	QT	AT
OPTICAL CHARAC	CTERISTICS				
LED light emission (Green)	Apply V=3.0 to 3.6V at the pin, then check if LI visible or not.	Green light shall be visible	x	x	
_ED light emission (Amber)	Apply V=3.0 to 3.6V at the pin, then check if LI visible or not.	ED light is	Amber light shall be visible	х	x
MECHANICAL CH	ARACTERISTICS				
Mating Durability	(BF4-IR2) 1000 cycles of mating and unmating socket.	(Visual and data transmission check	Х	-	
	(LC) 100 cycles of mating and unmating with L	before and after test)	Х	-	
Vibration	Vibration for 2 hours in 3 directions, at an amp 1.5mm with the frequency range 10 to 55 [Hz]. 3 times and 3 directions with the acceleration			-	
Shock	490 $[m/s^2]$ in duration 11ms.			Х	-
Fiber clamping strength	Loading tensile force to the fiber until break for direction with fiber exit.	> 10N	Х	-	
ENVIRONMENTAL	CHARACTERISTICS				
Transportation and storage temperature and humidity test	Applying temperature and humidity load as bel 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 t 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 cyclying test	-40 to 85 degree Celsius with dwell time of 10r 100 cycles		Х	-	
High temprerature storage	85 degree Celsius , 1000 hours		Х	-	
Low temperature storage	-40 degree Celsius, 1000 hours		Х	-	
Temperature and Humidity cycling ESD tolerance	Temperature, Humidity: 10 $\Leftrightarrow$ 65 degree Celsi w/o applying current. Number of cycle: 10 cycles, Cycle time: 24 h No humidity control RH93% 65°C -10°C 25°C -10°C 25°C -10°C 25°C -10°C 25°C -10°C 25°C -10°C 25°C -10°C 25°C -10°C 25°C -10°C 25°C -10°C 25°C -10°C -10°C -11°C -11°	ours/cycle		x	-
	st AT:Assurance Test X:Applicable Test PECIFICATION SHEET	DRAWI PART NO. CODE NO	NG NO. ELC-392030-0 BF4-IR2LCD-01-2N CL0831-1282-0-00	1	0