Operating Operating Coperating Operating Coperating Cop		rature -10 to +60 [deg. C] (40 to 75%Rł king)		'5%RH)	Storage temperatu) range(after mounti but not operating)		³ g, -40 to +85 [deg. C] (85%RH MAX) No freezing and condensing			X)
		perature	-10 to +60 [deg. C] (85%RH No freezing and condensing	H MAX) g	Characteri impedance	stic	Differential 100 [ohm]			
condition	condition Input signal IF		SLVS-200	-	ACTIVATE voltage 1.0 to 3.6V			3.6V		
Input signal vo		Itage Differential voltage 200 to 1400 mV			/p Input power voltage 3.0 to 3.6V (typ 3.3V)					
	Suitable conne	ctor (BF4-IR2) BF4-IR2-16P-0.5SH, (LCD) Duplex-LC adapter								
			SPECII	FICA ⁻	TIONS					
	TEM		TEST METHOD				REQUIE	REMENTS	OT	AT
CONST	RUCTION								~.	
Dimension,	Construction	Check visually and measure dimension with dimension				According to the drawing			X	X
and Finishing		measurement instrument.				-				
									X	X
ELECT	RIC CHARA	CIERIS	STICS						-	1
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				No mask hit(The mask should be similar to standard Ethernet mask)			X
		0.200500								
		EVI	DUT		Looping bac	k				
						ノ				
						1				
Signal dete	ct (OE-SDn)	Shall be t	urned OE-SDn=Low when EC	D-ACT=H	igh. (Same	OE-SDn v	oltage -0.	3 to 1.0V	Х	х
		Shall be turned EQ-ACTA-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				< 1 X 10 ⁻¹²				
		differentia	al 6.25Gbps PRBS7 200mVp	signal.					X	-
Power consumption		Measure current by digital multimeter during operating				<160mW				
		condition at VDD=3.3V.							X	-
Output sign	Output signal voltage		Shall be checked by eye diagram when input 6.25Gbp: PRBSZ differential 200mVp signal			160 to 330mVp			Х	х
OPTICA	L CHARAC	TERIST	TICS							
Insertion los	ss (IL)	Measure	insertion loss (LC) before terr	nination o	of	≤ 0.5dB				
		BF4-IR2. (HRS check IL in production process, not in fin							X	X
			ו)							
COLI		SCRIPTIC	ON OF REVISIONS		DESIGNED			CHECKED		
	 <							ΥΥ ΗΙΥΑΜΑ	2022	1212
Each test item shall be checked by mating with suitable receptacle connector on evaluation CHECKED TS. YAMAZAK							TS.YAMAZAKI	2022	20221212	
board (B	F4-IR2) or suita	ble adapte	le adapter (LC).			DES	GNED	SK.AOYAMA	2022	1206
This spe	cifications sheet	t is based o	is based on using BF4MC type in BF4-IR2.			DRAWN SK.		SK.AOYAMA	20221206	
Note QT:Qualification Test, AT:Assurance Test					DRAWING NO FI C-39203			3-00-	-00	
וחר	<u>.</u>	SPECIFICATION SHEET			PART NO.	BF4-IR2LCD-01-5M				
								\wedge	1/2	
I			$_$ $_$ \bigcirc \square \bigcirc	C	JUDE NO.		vg21-1	∠୪୨-୦-୦୦	/ ^v \	1/2

FORM HD0011-2-1

	SPECIFICA	TIONS				
ITEM	TEST METHOD		RE	QUIREMENTS	QT	AT
OPTICAL CHARAC	CTERISTICS					
LED light emission	Apply V=3.0 to 3.6V at the pin, then check if LI	ED light is	Green light sha	all be visible	V	V
(Green)	visible or not.		Amhar light anall ha visikla			X
LED light emission (Amber)	Apply V=3.0 to 3.6V at the pin, then check if Li visible or not.	Amber light shall be visible			Х	
MECHANICAL CH	ARACTERISTICS					
Mating Durability	(BF4-IR2) 1000 cycles of mating and unmating	No looseness, breakage and cracks (Visual and data transmission check before and after test)			-	
	socket.					
Vibration	Vibration for 2 hours in 3 directions, at an amp				-	
	1.5mm with the frequency range 10 to 55 [Hz].				-	
Shock	3 times and 3 directions with the acceleration $400 \text{ km}/s^{21}$ in duration $41 \text{ m}s$				-	
Fiber clamping strength	490 [m/s ⁻] In duration 11ms.					
	direction with fiber exit.			X	-	
ENVIRONMENTAL	CHARACTERISTICS					
Transportation and storage temperature and humidity test	Applying temperature and humidity load as bell 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 the After test measurement 23 deg.C	ime: 72hours)	No looseness, (Visual and da before test, in test)	X	-	
Temperature cyclying test	-40 to 85 degree Celsius with dwell time of 10r 100 cycles	nin,			Х	-
High temprerature storage	85 degree Celsius , 1000 hours				Х	-
Low temperature	-40 degree Celsius, 1000 hours		-		х	-
storage		-		Y		
Humidity cycling	w/o applying current. Number of cycle: 10 cycles, Cycle time: 24 hr No humidity control RH93% 65°C -10°C 0 2.5 5.5 810.5 13.5 16 18 22 24 Time					
		···· ,				
Note QT:Qualification Te	st AT:Assurance Test X:Applicable Test	NG NO.	ELC-392033-	00-00	0	
אגר s	PECIFICATION SHEET	PART NO.	BF4-IR2LCD-01-5M			
	OSE ELECTRIC CO., LTD.	CODE NO	CL083	CL0831-1285-0-00		