Storage tempe range (before unpact			-10 to +60 [deg. C] (40 to 75%RH		Storage te range(afte but not ope	r moun	ting,	-40 to +85 [deg. C] (85%RH MAX) No freezing and condensing			X)	
Operating	Operating temperature range		-10 to +60 [deg. C] (85%l No freezing and condens		Characteri impedance		Di	Differential 100 [ohm]				
condition	Input signal I	F	SLVS-200		ACTIVATE	voltag	je 1.	1.0 to 3.6V				
	Input signal v	/oltage	Differential voltage 200 to	voltage 200 to 1400 mVp Input p			ver voltage 3.0 to 3.6V (typ 3.3V)					
	Suitable con	nector										
SPECIFICATIONS												
l.	TEM		TEST METHO				REC	JUIRE	MENTS	QT	AT	
	RUCTION		1201 11101					201112		Ψ.	1 / ()	
	Construction		Check visually and measure dimension with dimension				According to the drawing				V	
and Finishir	ng		measurement instrument.								Х	
Marking			Check visually.							X	X	
ELECTR	IC CHAR											
Data rate performance		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				-	
		Moosuro	Moseuro ava diagram during VDD-2 21/ and input				Ethernet mask) No mask hit(The mask should be similar				X	
			Measure eye diagram during VDD=3.3V and input 6.25Gbps PRBS7 differential 200mVp signal.				to standard Ethernet mask)			r X	^	
		FVI	poard DUT		Looping bac	k						
						ノ						
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	Х		
ACT detect (EO-ACTn)		Shall be t	Shall be turned EO-ACTn=Low when TX is in active mode.				EO-ACTn voltage -0.3 to 1.0V				Х	
		Measure	Measure BER with BERT during input VDD=3.3V and differential 6.25Gbps PRBS7 200mVp signal.				< 1 X 10 ⁻¹²					
		differentia									-	
Power consumption		condition	Measure current by digital multimeter during operating condition at VDD=3.3V.			≦160mW			Х	-		
Output signal voltage		PRBS7 di	Shall be checked by eye diagram when input 6.25Gbps PRBS7 differential 200mVp signal.				160 to 330mVp			X	Х	
OPTICA	L CHARA	CTERIST	TICS									
Insertion los	ss (IL)		insertion loss (LC) before te (HRS check IL in production)			≤ 0.5dl	В			X	X	
COUN	NT I	DESCRIPTION	ON OF REVISIONS	I	DESIGNED			Cŀ	HECKED	DA	ATE	
0												
REMARK						_	APPROV		YY.HIYAMA	2022	20221212	
		-	necked by mating with suitable receptacle connector on evaluation in the state of t			_	CHECK		TS.YAMAZAKI	2022	20221208	
			able adapter (LC).				DESIGN	ED	SK.AOYAMA	2022		
I his spec	citications she	et is based o	t is based on using BF4MC type in BF4-IR2.			DRAWN		N	SK.AOYAMA	20221206		
Note QT:Qualification Test, AT:Assurance Test				DRAV	AWING NO. ELC-39203		3-00-	-00				
HS		SPECIFICATION SHEET			PART NO.	BF4-IR2LCD-01-5M			\wedge	4 /0		
		KUSE EL	ECTRIC CO., LTD.	C	ODE NO.		CL083	1-12	85-0-00	<u>/0\</u>	1/2	
	HD0011_2_1											

Wishle or not. Apply V=3.0 to 3.6V at the pin, then check if LED light is Amber light shall be visible X X Apply V=3.0 to 3.6V at the pin, then check if LED light is Amber light shall be visible X X X		SPECIFIC/	ATIONS				
LED light emission Apply V=3.0 to 3.8 V at the pin, then check if LED light is value or not.	ITEM	TEST METHOD		RE	QUIREMENTS	QT	АТ
Second Sibility Second	OPTICAL CHARAC	CTERISTICS					
Apply V=3.0 to 3.6V at the pin, then check if LED light is Amber light shall be visible X X	LED light emission	Apply V=3.0 to 3.6V at the pin, then check if LED light is		Green light shall be visible			X
Manhard	(/		ED light is	Amber light shall be visible			
Mating Durability (BF4-IR2) 1000 cycles of mating and unmating with BF4-IR2 (No looseness, breakage and cracks (Nosal and data transmission check locket) (TC) 100 cycles of mating and unmating with LC adapter. Vibration Vibration for 2 hours in 3 directions, at an amplitude of 1.5mm with the frequency range to 10 to 56 (Hz). Shock 3 times and 3 directions with the acceleration 480 (m/s) in duration that this. Loading tensile force to the fiber until break for same direction with their acceleration with their acceleration with their acceleration. ENVIRONMENTAL CHARACTERISTICS Transportation and Characteristics an	(Amber)					Х	
Socket ICC 1900 cycles of mating and unmating with LC adapter.	MECHANICAL CHA						
Vibration Vibration for 2 hours in 3 directions, at an amplitude of 1.5mm with the frequency range 10 to 55 (1.5mm vibration for 2 hours in 3 directions, at an amplitude of 1.5mm with the frequency range 10 to 55 (1.5mm vibration 430 (m/s²) in duration 11 vibration 430 (m/s²) in duration 12 vibration 13 vibration 12 vibr	Mating Durability	1, ,	(Visual and data transmission check before and after test)			-	
1.5mm with the frequency range 10 to 55 [Hz]. X						-	
Shock 3 times and 3 directions with he acceleration 490 [m/s²] in duration 1 time. Fiber clamping strength direction with fiber exit. ENVIRONMENTAL CHARACTERISTICS Transportation and storage temperature and humidity load as below Better temperature and humidity load as below Intermediate measurement 23 deg. C Cold test *20 deg. G. (soak time: 72 hours) Intermediate measurement 23 deg. C Damp heat test *+60 deg. C. 90% fib (soak time: 72 hours) After test measurement 23 deg. C Damp heat test *+60 deg. C. 90% fib (soak time: 72 hours) Intermediate measurement 23 deg. C After test measurement 23 deg. C Bis degree Celsius, 1000 hours 85 degree Celsius, 1000 hours 85 degree Celsius, 1000 hours 85 degree Celsius, 1000 hours 100 cycles 85 degree Celsius, 1000 hours 100 cycles 100 temperature and Humidity cycling 100 temperature and Humidity cycling 100 temperature and Humidity 10 to 65 degree Celsius, 93%RH wio applying current. Number of cycle: 10 cycles, Cycle time: 24 hours/cycle 100 temperature and Humidity cycling 100 temperature and Humidity and temperature, Humidity: 10 to 65 degree Celsius, 93%RH wio applying current. Number of cycle: 10 cycles, Cycle time: 24 hours/cycle 100 temperature and Humidity and temperature and Humidity and temperature and Humidity and temperature, Humidity: 10 to 65 degree Celsius, 93%RH wio applying current. Number of cycle: 10 cycles, Cycle time: 24 hours/cycle 100 temperature and Humidity and temperature and tem	Vibration					-	
### 490 [m/s*] in duration 11ms. ### 490 [m/s*] in duration 12ms.	Shock						
Section with fiber exit. X						-	
Transportation and storage temperature and humidity load as below Before test massurement 23 deg.C Cold test -20 deg.C (soak time: 72hours) Intermediate measurement 23 deg.C Damp heat test + 90 deg.C (soak time: 72hours) After test measurement 23 deg.C Damp heat test + 90 deg.C (soak time: 72hours) After test measurement 23 deg.C Temperature cyclying test + 100 cycles 40 deg.C (soak time: 72hours) After test measurement 23 deg.C 23 deg.C 23 deg.C 24 deg.C (soak time: 72hours) After test measurement 23 deg.C 23 deg.C 24 deg.C (soak time: 72hours) After test measurement 23 deg.C 24 deg.C (soak time: 72hours) After test measurement 23 deg.C 24 deg.C (soak time: 72hours) After test measurement 100 cycles 24 deg.C 24 deg.C (soak time: 72hours) After test measurement 100 cycles 24 deg.C 24 deg.C (soak time: 72hours) After test measurement 24 deg.C 24 deg.C (soak time: 72hours) After test measurement 25 deg.C 24 deg.C (soak time: 72hours) After test measurement 25 deg.C 24 deg.C (soak time: 72hours) After test measurement 25 deg.C 24 deg.C (soak time: 72hours) After test measurement 25 deg.C 24 deg.C (soak time: 72hours) After test measurement 25 deg.C 24 deg.C (soak time: 72hours) After test measurement 25 deg.C 24 deg.C (soak time: 72hours) After test measurement 25 deg.C 24 deg.C (soak time: 72hours) After test measurement 25 deg.C 24 deg.C (soak time: 72hours) After test measurement 25 deg.C 24 deg.C (soak time: 72hours) After test measurement 25 deg.C 24 deg.C	Fiber clamping strength		> IUIN			-	
Before test measurement 23 deg.C Damp hat test + 8ch deg.C, 90x6 time: 72hours) Intermediate measurement 23 deg.C Damp hat test + 8ch deg.C, 90x6 these. Yoke his oak time: 72hours) After test measurement 23 deg.C Damp hat test + 8ch deg.C, 90x6 these. Yoke his oak time: 72hours) After test measurement 23 deg.C Damp hat test + 8ch deg.C, 90x6 the yoke time: 72hours) After test measurement 23 deg.C Temperature cyclying test + 40 to 85 degree Celsius with dwelt time of 10min, 100 cycles 85 degree Celsius, 1000 hours storage Low temperature and Humidity cycling Temperature, Humidity: 10 ch 65 degree Celsius, 93%RH w/o applying current. Number of cycle: 10 cycles, Cycle time: 24 hours/cycle Regard 1993% Rega	ENVIRONMENTAL	CHARACTERISTICS					
Damp heat test + 60 deg.C, 90%Rh (soak time: 72hours) After test measurement 23 deg.C Temperature cyclying test -40 to 85 degree Celsius with dwell time of 10min, 100 cycles 85 degree Celsius; 1000 hours torage -40 degree Celsius; 1000 hours Temperature and Humidity cycling Temperature. Number of cycle: 10 cycles, Cycle time: 24 hours/cycle No humidity cycling No humidity control RH93% ESD tolerance (BF4-IR2) Applied voltage 2kV (Human Body Model) X - Note QT:Qualification Test AT:Assurance Test X:Applicable Test DRAWING NO. ELC-392033-00-00 SPECIFICATION SHEET PART NO. BF4-IR2LCD-01-5M	Transportation and storage temperature and humidity test	Before test measurement 23 deg.C Cold test -20 deg.C (soak time: 72hours)	(Visual and data transmission check before test, intermediate test and after			-	
Temperature cyclying test 40 to 85 degree Celsius with dwell time of 10min, 100 cycles 35 degree Celsius, 1000 hours storage 40 degree Celsius, 1000 hours storage 50 degree Celsius, 1000 hours 40 degree Celsius, 1000 hours 40 degree Celsius, 1000 hours 50 degree Celsius, 93%RH w/o applying current. Number of cycle: 10 cycles, Cycle time: 24 hours/cycle 50 degree Celsius, 93%RH w/o applying current. Number of cycle: 10 cycles, Cycle time: 24 hours/cycle 50 degree Celsius, 93%RH w/o applying current. Number of cycle: 10 cycles, Cycle time: 24 hours/cycle 50 degree Celsius, 93%RH w/o applying current. Number of cycle: 10 cycles, Cycle time: 24 hours/cycle 50 degree Celsius, 93%RH w/o applying current. Number of cycle: 10 cycles, Cycle time: 24 hours/cycle 50 degree Celsius, 93%RH w/o applying current. Number of cycle: 10 cycles, Cycle time: 24 hours/cycle 50 degree Celsius, 93%RH w/o applying current. Number of cycle: 10 cycles, Cycle time: 24 hours/cycle 50 degree Celsius, 93%RH w/o applying current. Number of cycle: 10 cycles, Cycle time: 24 hours/cycle 50 degree Celsius, 93%RH w/o applying current. Number of cycle: 10 cycles, Cycle time: 24 hours/cycle 50 degree Celsius, 93%RH w/o applying current. Number of cycle: 10 cycles, Cycle time: 24 hours/cycle 50 degree Celsius, 93%RH w/o applying current. Number of cycle: 10 cycles, Cycle time: 24 hours/cycle 50 degree Celsius, 93%RH w/o applying current. Number of cycles for c		Damp heat test +60 deg.C, 90%Rh (soak					
Low temperature storage Low temperature storage -40 degree Celsius, 1000 hours storage Temperature and Humidity cycling Temperature, Humidity: 10 \$\iff 65\$ degree Celsius, 93%RH w/o applying current. Number of cycle: 10 cycles. Cycle time: 24 hours/cycle No humidity control RH93% No humidity control	Temperature cyclying test	-40 to 85 degree Celsius with dwell time of 10			X	-	
Low temperature storage 40 degree Celsius, 1000 hours Temperature and Humidity cycling Temperature, Humidity: 10 \$\iff 65\$ degree Celsius, 93%RH w/o applying current. Number of cycle: 10 cycles, Cycle time: 24 hours/cycle No humidity cycling RH93% Centrol RH93% C	High temprerature storage	85 degree Celsius , 1000 hours				-	
Temperature, Humidity: 10 \$\infty\$ 65 degree Celsius, 93%RH w/o applying current. Number of cycle: 10 cycles, Cycle time: 24 hours/cycle Note and the angle of the angle o	Low temperature	-40 degree Celsius, 1000 hours			Х	-	
Number of cycle: 10 cycles, Cycle time: 24 hours/cycle No humidity Control RH93% Control RH93% ESD tolerance (BF4-IR2) Applied voltage 2kV (Human Body Model) X Note QT:Qualification Test AT:Assurance Test X:Applicable Test DRAWING NO. ELC-392033-00-00 SPECIFICATION SHEET PART NO. BF4-IR2LCD-01-5M	Temperature and	Temperature, Humidity: 10 ⇔ 65 degree Cels	_		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-392033-00-00 SPECIFICATION SHEET PART NO. BF4-IR2LCD-01-5M	Humidity cycling	Number of cycle: 10 cycles, Cycle time: 24 h					
Note QT:Qualification Test AT:Assurance Test X:Applicable Test DRAWING NO. ELC-392033-00-00 RS SPECIFICATION SHEET PART NO. BF4-IR2LCD-01-5M		RH93% control RH936 control RH					
SPECIFICATION SHEET PART NO. BF4-IR2LCD-01-5M	ESD tolerance	(BF4-IR2) Applied voltage 2kV (Human Body	-		X	-	
SPECIFICATION SHEET PART NO. BF4-IR2LCD-01-5M							
SPECIFICATION SHEET PART NO. BF4-IR2LCD-01-5M							
SPECIFICATION SHEET PART NO. BF4-IR2LCD-01-5M							
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SPECIFICATION SHEET PART NO. BF4-IR2LCD-01-5M							
SPECIFICATION SHEET PART NO. BF4-IR2LCD-01-5M	Note OT:Qualification Te	st AT-Assurance Test X-Annlicable Test	DRAWI	NG NO	FI C-302033-	00-0	0
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		OSE ELECTRIC CO., LTD.					2/2