	Storage temperature range (before unpacking)		-10 to +60 [deg.C] (25 to 75%RH) range(aft		Storage ter range(after not applying	mounting,	-40 to +85 [deg.C] (8 No freezing and cond			
Operating condition	Operating temperature range (applying current)		-10 to +60 [deg.C] (85%R No freezing and condensation		impedance		Differential 100 [ohm]			
	Input signal IF		SLVS-200	4.400	ACTIVATE		1.0 to 3.6V			
	Input signal voltage		Differential voltage 200 to 1400 mV Common voltage 150 to 340 mV [Single supply mode] (Tx & Rx) 3.3V							
	Input power vo		[Dual supply mode] (Tx) 2.5V, (Rx) 2.5V AND 1.5V Transmitter (Tx): BF4-TX-14DS-0.5V, Receiver (Rx): BF4-RX-14DS-0.5V							
					TIONS	(,				_
l.	TEM		TEST METHO				REQUIREMENTS	Q	тΤ	Α
	RUCTION					_			<u> </u>	
	Construction	Visual insp	pection and dimension mea	suremer	nt	Comply wi	th the drawing	X		Х
and Finishing		Visual inspection								
Marking	RIC PERFO							Χ		Χ
Data rate	IIC PERFU					No mask h	nit at 0.05 to 6.25 Gbps		- 1	
Daid Idie		Eye diagram test Input differential PRBS7 200mV signal.				The mask filt at 0.00 to 0.23 Gbps				-
Bit error rate (BER) 6.25Gbps data		BERT test				<1X10 ⁻¹² (@6.25Gbps) No mask hit				
		Input differential PRBS7 200mV signal.								-
		(VDD=3.3V, Single supply mode) Eye diagram test							+	_
transmission test		Input 6.25Gbps PRBS7 differential 200mV signal.				THO THOUSE THE				Х
		(VDD=3.3V, Single supply mode)								
Input voltag	e	Eye diagram test				No mask hit		×	, []	-
		Input 6.25Gbps PRBS7 differential 200mV and 1400mV signal. (VDD=3.3V, Single supply mode)							`	-
Output voltage		Shall be checked the output voltage from Rx plug.				Differential voltage: 160-330mV				Х
3.		(VDD=3.3V, single supply mode)				Common mode voltage: 180-330mV				-
Signal detec		Shall be turned SD=High when VDD=3.3V and ACT=High. Shall be checked the voltage and current by digital multi				SD=High voltage: 1.0 to 1.6V				Х
Power consumption (TX & RX total)		meter.				[Single supply mode] During operation: 120mW Max Sleep mode: 25uW Max [Dual supply mode] During operation: 80mW Max Sleep mode: 25uW Max				-
MECHAI	NICAL CHA	ARACTE	RISTICS			Oloop III	iouo . Zourr max		!_	_
Mating Dura		50 cycles of mating and unmating with BF4 receptacle. No looseness, breakage and c						ks X		_
Vibration		Vibration for 2 hours in 3 directions, at an amplitude of				(Visual and data transmission check before and after test)			(_
		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.						×		-
Fiber Pull.		Measuring fiber tensile strength at breakdown point Pulling direction: Fiber axial direction.				>7N				_
			eed: 10mm/min							
			CTERISTICS	annhii-	a current	No locas	oss brookeds and are-	/C		_
Temperature cycling		Temperature: -40 ⇔ +85 [deg.C] ,w/o applying current Time: 10 minutes ⇔ 10 minutes Number of cycle: 100 cycles			g current	No looseness, breakage and cracks (Visual and data transmission check before and after test)			(-
High Temp storage		Temperate Time: 100	Temperature: 85 [deg.C], w/o applying current Time: 1000 hours				×	(-	
Low Temp storage		Time : 100	Temperature: -40 [deg.C], w/o applying current Time: 1000 hours					×	(-
cycling v		w/o applyi Number o	Temperature, Humidity: -10 ⇔ +65 [deg.C], 93%RH w/o applying current Number of cycle: 10 cycles Cycle Time: 24h/cycle						(-
ESD tolerar	nce		2kV (Human Body Model)			1		X		-
COUN	NT D	ESCRIPTIC	N OF REVISIONS		DESIGNED		CHECKED	[DATI	E
1		DIS-K-00002328			SJ. SUZUKI		20	20200317		
REMARK	•		<u>, </u>			APPROVE	MT. SHIBUTANI	2015042		
			y mating with suitable receptacle connector			CHECKE		20	201504	
on the eva	luation board	l.				DESIGNE		20	201504	
						DRAWN	17.1. 67.1.16		1504	12
Note QT: Qualification Test, AT: Assurance Test						DRAWING NO. ELC-17952			0	
100	S	PECIFI(CATION SHEET		PART NO.		BF4MC-6GTXRX-B1	-**M		
HIROSE EL			ECTRIC CO., LTD.	CODE NO.			1	1,	/'	