Operating inspectation         101 to 400 (big. C[89594H MAX)         Characteristic         Differential 100 (bim)           condition         Input signal V         EVEX.200         ACTIVATE voltage         10 to 3.8V           input signal voltage         Differential voltage 200 to 1400 mVp         Input nover voltage         3.0 to 3.6V (by 3.3V)           SPECIFICATIONS           SPECIFICATIONS           CONSTRUCTION           CONSTRUCTION           CONSTRUCTION           CONSTRUCTION           CONSTRUCTION           CONSTRUCTION           CONSTRUCTION           Construction           Construction           Measure exped dagram when input differential 200mVp           No mask hir (the mask should be similar to standard ethernet mask)           Measure exped dagram input 6.25Gbps PRB57 differential 100 inmask hir (the mask bio.04 be similar to standard ethernet mask)           Signal detect (0E-SDN)           Signal detect (0E-SDN)           Measure exped dagram when input 6.25Gbps PRB57 differential 200mVp           Signal detect (0E-SDN)           Measure exped dagram input 6.25Gbps PRB57 differential 200mVp	5%RH MAX) ensing			
condition         Input signal F         SLVS 200         ACTIVATE voltage         10 to 3.6V           Suitable connector         (BF4-R2) BF4-IR2-16P-0.5SH, Suitable connector         Input power voltage         3.0 to 3.6V (typ 3.3V)           SPECIFICATIONS           ITEM         TEST METHOD         REQUIREMENTS           CONSTRUCTION           Check visually and measure dimension with dimension measurement, instrument, measure eye diagram when input differential 200mVp signal.         According to the drawing measure eye diagram when input differential 200mVp signal.           Data rate performance         Measure eye diagram when input 6.25Gbpa PRBS7 differential 200mVp signal.         No mask hit at 0.05 to 6.25 Gbps when as should be similar to standard etherent mask)           Signal detect (0E-SDn)         Shall be turned 0E-SDn-Low when E0-ACT+High and VDD-3.3V.         De-SDn voltage -0.3 to 1.0V           ACT detect (E0-ACTn)         Shall be turned 0E-SDn-Low when TX is during VDD-3.3V.         E0-ACTn voltage -0.3 to 1.0V           Power consumption         Measure eurent by digital multimeter during operating condition at VDD-3.3V.         Sto 10.0V           PRBS7 200mVp signal.         Sto 10.30MVp PRBS7 200mVp signal.         Sto 00MVp Signal.           OPTICAL CHARACTERISTICS         Cenn light shall be visible visible or not.         Sto 10.30MVp PRBS7 200MVp signal.           DeTICAL				
Input signal outlage         Differential voltage 201 to 1400 mVp         Input power voltage         3.0 to 3.5V (typ 3.3V)           SPECIFICATIONS           SPECIFICATIONS           CONSTRUCTION           Construction         Check visually and measure dimension with dimension mark finishing         According to the drawing           Construction         Check visually and measure dimension with dimension         According to the drawing           Marking         Check visually and measure dimension with dimension         According to the drawing           Marking         Check visually and measure dimension with dimension         According to the drawing           Marking         Check visually and measure dimension with dimension         According to the drawing           Marking to the drawing         Check visually and measure dimension with dimension         According to the drawing           Marking to the drawing         Check visually and the measure dimension with dimension         Marking to the drawing           Marking to the drawing         Check visually and the measure dimension with dimension         Marking to the drawing           Marking to the drawing with measur				
Suitable connector         IEP-4IR2:16P-0.6SH,           SPECIFICATIONS           TEM         TEST METHOD         REQUIREMENTS           CONSTRUCTION           Construction         Check visually and measure dimension with dimension measurement instrument, dearway.         According to the drawing measure eye diagram when input differential 200mVp signal.           Data rate performance         Measure eye diagram when input 62/50bps PRBS7 differential 200mVp signal.         No mask hit at 0.05 to 6.25 Gbps (The mask should be similar to standard ethemet mask)           Signal detect (0E-SDn)         Shall be turned OE-SDn-Low when EO-ACTI-High and VDD=3.3V. (Same measurement method as 'Data rate')         Shall be turned OE-SDn-Low when EO-ACTI-High and VDD=3.3V.         GE:SDn voltage-0.3 to 1.0V         VDD=3.3V.           ACT detect (EO-ACTI)         Measure BER with BERT during input differential 6.25Gbps PRBS7 differential 200mVp signal.         EO-ACTn voltage-0.3 to 1.0V         VDD=3.3V.           OPTICAL CHARACTERISTICS         Measure BER with DERT during input differential 6.25Gbps PRBS7 differential 200mVp signal.         If to ta 30mVp PRBS7 differential 200mVp signal.         Stall be visible         Vib/2000         VD=3.04 3.6V at the pin, then check if LED light is with gen or not.         Measure BER With Pin, then check if LED light is with doe not.         Measure BER With pin, then check if LED light is with the requunoy ran				
TEM         TEST METHOD         REQUIREMENTS           CONSTRUCTION         Check visually and measure dimension with dimension measurement instrument.         According to the drawing           and Finishing         Check visually.         According to the drawing           Biting         Check visually.         Check visually.           ELECTRIC CHARACTERISTICS         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 drivent mask).           Signal detect (0E-SDn)         Shall be turned 0E-SDn-Low when EO-ACT=High and 200mVp signal.         No mask hit (The mask should be similar to standard drivent mask).           Signal detect (0E-SDn)         Shall be turned 0E-SDn-Low when TX is during VDD=3.3V.         EO-ACTn voltage -0.3 to 1.0V           ACT detect (EO-ACTn)         Measure BER with BERT during input differential 6.25Gbps         < 1 X 10 <sup>-12</sup> Power consumption         Measure current by digital multimeter during operating condition at VDD=3.3V.         ≤ 160mW           Collupt signal.         Condition at VDD=3.3V.         Green light shall be visible           OPTICAL CHARACTERISTICS         ED light emission         Apply V=30 to 3.0' X 3t the pin, then check if LED light is direct in the visible visible visible visible visible visible or not.           Meber Direct and 3 directorias and 3 directorias at an amplitude of 1.5mm visible or not.         Mole or not.				
TEM         TEST METHOD         REQUIREMENTS           CONSTRUCTION         Check visually and measure dimension with dimension measurement instrument.         According to the drawing           and Finishing         Check visually.         According to the drawing           Biting         Check visually.         Check visually.           ELECTRIC CHARACTERISTICS         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 drivent mask).           Signal detect (0E-SDn)         Shall be turned 0E-SDn-Low when EO-ACT=High and 200mVp signal.         No mask hit (The mask should be similar to standard drivent mask).           Signal detect (0E-SDn)         Shall be turned 0E-SDn-Low when TX is during VDD=3.3V.         EO-ACTn voltage -0.3 to 1.0V           ACT detect (EO-ACTn)         Measure BER with BERT during input differential 6.25Gbps         < 1 X 10 <sup>-12</sup> Power consumption         Measure current by digital multimeter during operating condition at VDD=3.3V.         ≤ 160mW           Collupt signal.         Condition at VDD=3.3V.         Green light shall be visible           OPTICAL CHARACTERISTICS         ED light emission         Apply V=30 to 3.0' X 3t the pin, then check if LED light is direct in the visible visible visible visible visible visible or not.           Meber Direct and 3 directorias and 3 directorias at an amplitude of 1.5mm visible or not.         Mole or not.				
Dimension, Construction and Finishing         Check visually and measure dimension with dimension measurement instrument.         According to the drawing and Finishing         According to the drawing according to the drawing           BLECTRIC 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)           Measure eye diagram input 6.25Gbps PRB57 differential 200mVp signal.         No mask hit at 0.05 to 6.25 Gbps (The mask should be similar to standard ethernet mask)           Signal detect (CE-SDn)         Shall be turned CE-SDn=Low when EO-ACT=High and VDD=3.3V. (Same measurement method as "Data rate")         OE-SDn voltage -0.3 to 1.0V           ACT detect (EO-ACTn)         Shall be turned EO-ACT=Low when TX is during VDD=3.3V.         EO-ACTn voltage -0.3 to 1.0V           Power consumption         Measure ERR with BERT during input differential 6.25Gbps PRB57 200mVp signal.         £160mW           Output signal voltage         Shall be checked by eye diagram when input 6.25Gbps PRB57 200mVp signal.         160 to 330mVp           OPTICAL CHARACTERISTICS         ED light emission         Apply V-3.0 to 3.6V at the pin, then check if LED light is wisble or not.         Green light shall be visble           ED light emission         Apply V-3.0 to 3.6V at the pin, then check if LED light is wisble or not.         ED light emission check before and after test)           Vibration for 2 hours in 3 directions, at an amplitude	QT	А		
and Finishing       measurement instrument.         Warking       Check visually.         ELECTRIC CHARACTERISTICS       No mask hil at 0.05 to 6.25 Gbps         Data rate performance       Measure eye diagram when input differential 200mVp         Signal.       Measure eye diagram input 6.25Gbps PRB57 differential         No mask hil at 0.05 to 6.25 Gbps       Check et al.         Signal detect (OE-SDn)       Shall be turned CE-SDn-Low when EC-ACT-Hilgh and         VDD=3.3V. (Same measurement method as "Data rate")       OE-SDn voltage -0.3 to 1.0V         ACT detect (EO-ACTn)       Shall be turned CE-ACT-Low when TX is during       EO-ACTn voltage -0.3 to 1.0V         VDD=3.3V.       Shall be turned CE-ACT-Low when TX is during       EO-ACTn voltage -0.3 to 1.0V         Power consumption       Measure ERR with BERT during input differential 6.25Gbps       C1 X 10 <sup>-9</sup> PRBS7 200mVp signal.       E160mW       condition at VDD=3.3V.         OPTICAL CHARACTERISTICS       Iso to 330mVp       PRBS7 differential 200mVp signal.         OPTICAL CHARACTERISTICS       Iso ta 6V at the pin, then check if LED light is       Green light shall be visible         Wisble or not.       wisble or not.       Wisble or not.       No looseness, breakage and cracks (Viaui and data transmission check before and after test)         Wisble or not.       Scocket.       Scocket.       N				
ELECTRIC CHARACTERISTICS           Data rate performance signal.         Measure eye diagram when input differential 200mVp signal.         No mask hit at 0.05 to 6.25 Cbps (The mask should be similar to standard ethernet mask)           Signal detect (0E-SDn)         Shall be turned 0E-SDn=Low when EO-ACT=High and VDD=3.3V. (Same measurement method as "Data rate")         No mask hit at 0.05 to 6.25 cbps similar to standard ethernet mask)           ACT detect (EO-ACTn)         Shall be turned EO-ACTn-Low when TX is during VDD=3.3V.         EO-ACTn voltage -0.3 to 1.0V           Bit error rate (BER)         Measure ERR with BERT during input differential 6.25Gbps PRBS7 200mVp signal.         EO-ACTn voltage -0.3 to 1.0V           Power consumption condition at VDD=3.3V.         Shall be checked by eye diagram when input 6.25Gbps PRBS7 differential 200mVp signal.         160 to 330mVp           OPTICAL CHARACTERISTICS         IED 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           Metering Durability         (BF4-R2) 1000 cycles of mating and unmating with BF4-IR2 with the frequency range 10 to 56 [H2].         No loseeness, breakage and cracks (Visual and data transmission check before and after test)           Shock         3 times and 3 directions, at an amplitude of 1.5mm with the frequency range 10 to 56 [H2].         No loseeness, breakage and cracks (Visual and data transmission check before and after test)           Shock         0         DESIGNED         CHECKED </td <td>Х</td> <td></td>	Х			
Data rate performance         Measure eye diagram when input differential 200mVp aignal.         No mask hit dt 0.05 6.25 Gbps (The mask should be similar to standard ethermet mask)           Signal detect (0E-SDn)         Shall be turned OE-SDn=Low when EO-ACT=High and VDD=3.3V. (Same measurement method as "Data rate")         No mask hit (The mask should be similar to standard ethernet mask)           ACT detect (EO-ACTn)         Shall be turned OE-SDn=Low when EO-ACT=High and VDD=3.3V.         EO-ACTn voltage -0.3 to 1.0V           ACT detect (EO-ACTn)         Shall be turned EO-ACTn=Low when TX is during VDD=3.3V.         EO-ACTn voltage -0.3 to 1.0V           PBSS7 200mVp signal.         EO-ACTn voltage -0.3 to 1.0V         VDD=3.3V.           Pressor consumption         Measure ER with BERT during input differential 6.25Gbps PRBS7 differential 200mVp signal.         ≤ 160mW           Output signal voltage         Shall be checked by eye diagram when input 6.25Gbps PRBS7 differential 200mVp signal.         160 to 330mVp           OPTICAL CHARACTERISTICS         Apply V=3.0 to 3.6V at the pin, then check if LED light is wisble or not.         Green light shall be visible           Mating Durability         (BF4-R2) 1000 cycles of mating and unmating with BF4-R2 socket.         No looseness, breakage and cracks (Visual and data transmission check before and after test)           Vibration for 2 hours in 3 directions, at an amplitude of 1.5mm with the fraquency range 10 to 56 [H2].         No         No           Shock         3 times and 3 dire	Х	)		
signal.       (The mask should be similar to standard etherment mask)         Measure eye diagram input 6.25Gbps PRBS7 differential 200mVp signal.       No mask hot (The mask should be similar to standard etherment mask)         Signal detect (QE-SDn)       Shall be turned CE-SDn=Low when EO-ACT=High and VDD=3.3V. (Same measurement method as "Data rate")       QE-SDn voltage -0.3 to 1.0V         ACT detect (EO-ACTn)       Shall be turned CE-SDn=Low when TX is during VDD=3.3V.       EO-ACTn voltage -0.3 to 1.0V         Bit error rate (BER)       Measure ER with BERT during input differential 6.25Gbps PRBS7 200mVp signal.       EO-ACTn voltage -0.3 to 1.0V         Power consumption       Measure current by digital multimeter during operating condition at VDD=3.3V.       ≤ 160mW         ODFICAL CHARACTERISTICS       HB0 to 330mVp PRBS7 differential 200mVp signal.       H60 to 330mVp PRBS7 differential 200mVp signal.         OPTICAL CHARACTERISTICS       ED light mission       Apply V=3.0 to 3.6V at the pin, then check if LED light is visible       Green light shall be visible         Materia Durability       (BF4-IR2) 1000 cycles of mating and unmating with BF4-IR2 softer and after test)       No loseness, breakage and cracks (Visual and data transmission check before and after test)         Vibration       vibration for 2 hours in 3 directions, at an amplitude of 1.5mm with the frequency range 10 to 56 [H2].       No loseness, breakage and cracks (Visual and data transmission check before and after test)         Vibration       Vibration for 2 hours				
200mVp signal.         similar to standard ethemet mask)           Signal detect (OE-SDn)         Shall be turned OE-SDn=Low when EO-ACT=High and VDD=3.3V. (Same measurement method as "Data rate")         OE-SDn voltage -0.3 to 1.0V           ACT detect (EO-ACTn)         Shall be turned EO-ACTn=Low when TX is during VDD=3.3V.         EO-ACTn voltage -0.3 to 1.0V           Bit error rate (BER)         Measure BER with BERT during input differential 6.25Gbps PRBS7 200mVp signal.         EO-ACTn voltage -0.3 to 1.0V           Power consumption         Measure current by digital multimeter during operating condition at VDD=3.3V.         ≤160mW           Output signal voltage         Shall be checked by eye diagram when input 6.25Gbps PRBS7 differential 200mVp signal.         160 to 330mVp           OPTICAL CHARACTERISTICS         If Cerean light shall be visible visible or not.         Green light shall be visible           Metary Durability         (EF4-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)           Vibration         Vibration for 2 hours in 3 directions, at an amplitude of 1.5mm with the frequency range 10 to 55 [H2].         No looseness, breakage and cracks (Visual and data transmission check before and after test)           Vibration         Vibration 1fms.         Loading tensile force to the fiber until break for same direction 490 [m/s <sup>2</sup> ] in duration 11ms.         > 10N           Eiber clamping strength         Loading	X	-		
VDD=3.3V. (Same measurement method as "Data rate")         ACT detect (EO-ACTn)       Shall be turned EO-ACTn=Low when TX is during VDD=3.3V.       EO-ACTn voltage -0.3 to 1.0V         Bit error rate (BER)       Measure BER with BERT during input differential 6.25Gbps PRBS7 200mVp signal.       EO-ACTn voltage -0.3 to 1.0V         Power consumption       Measure current by digital multimeter during operating condition at VDD=3.3V.       ≤ 160mW         Output signal voltage       Shall be checked by eye diagram when input 6.25Gbps PRBS7 differential 200mVp signal.       160 to 330mVp         OPTICAL CHARACTERISTICS       Destorteristics       Green light shall be visible         Cigreen)       visible or not.       Green light shall be visible         Mating Durability       (IgF4-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)         Vibration       Vibration for 2 hours in 3 directions, at an amplitude of 1.5mm with the frequency range 10 to 56 [H2].       No looseness, breakage and cracks (Visual and data transmission check before and after test)         Shock       3 times and 3 directions with the acceleration 490 [m/s <sup>2</sup> ] in duration 11ms.       PEISIONE       PEISIONE         Fiber clamping strength       Loading tensile force to the fiber until break for same direction with fiber exit.       APPROVED       YY.HIYAMA AEPROVED       YY.HIYAMA AEPROVED         REMARK <t< td=""><td>Х</td><td>)</td></t<>	Х	)		
VDD=3.3V.       VDD=3.3V.         Bit error rate (BER)       Measure BER with BERT during input differential 6.25Gbps PRBS7 200mVp signal.       < 1 X 10 <sup>-12</sup> Power consumption       Measure current by digital multimeter during operating condition at VDD=3.3V.       ≤ 160mW         Output signal voltage       Shall be checked by eye diagram when input 6.25Gbps PRBS7 differential 200mVp signal.       160 to 330mVp         OPTICAL CHARACTERISTICS       If Green light shall be visible (Green)       isble or not.         LED light emission       Apply V=3.0 to 3.6V at the pin, then check if LED light is (Green)       Green light shall be visible         LED light emission       Apply V=3.0 to 3.6V at the pin, then check if LED light is (Amber)       Mo looseness, breakage and cracks (Visual and data transmission check before and after test)         MECHANICAL CHARACTERISTICS       No looseness, breakage and cracks (Visual and data transmission check before and after test)         Wibration       Vibration for 2 hours in 3 directions, at an amplitude of 1.5mm with the frequency range 10 to 55 [Hz].         Shock       3 limes and 3 directions with the acceleration 490 [m/s <sup>3</sup> ] in during 11m.         Fiber clamping strength       Loading tensile force to the fiber until break for same direction valuation board (BF4-IR2)         This specifications sheet is based on using BF4MC type in BF4-IR2.       DESIGNED       CHECKED         This specifications sheet is based on using BF4MC type in BF4-IR2.	Х	)		
PRBS7 200mVp signal.       PRBS7 200mVp signal.         Power consumption       Measure current by digital multimeter during operating condition at VDD=3.3V.       ≤ 160mW         Output signal voltage       Shall be checked by eye diagram when input 6.25Gbps PRBS7 differential 200mVp signal.       160 to 330mVp         OPTICAL CHARACTERISTICS       ED light emission       Apply V=3.0 to 3.6V at the pin, then check if LED light is visible or not.       Green light shall be visible         LED light emission       Apply V=3.0 to 3.6V at the pin, then check if LED light is visible or not.       Amber light shall be visible         Meter emission       Apply V=3.0 to 3.6V at the pin, then check if LED light is visible or not.       Moleoseness, breakage and cracks (Visual and data transmission check before and after test)         Meter emission       Vibration for 2 hours in 3 directions, at an amplitude of 1.5mm with the frequency range 10 to 55 [Hz].       No looseness, breakage and cracks (Visual and data transmission check before and after test)         Shock       3 times and 3 directions with the acceleration 490 [m/s] in duration 11ms.       Point frequency range 10 to 55 [Hz].         Shock       0 [messile force to the fiber until break for same direction avit this fiber exit.       APPROVED       YLHIYAMA         COUNT       DESCRIPTION OF REVISIONS       DESIGNED       CHECKED       TS.Apedifications sheet is based on using BF4MC type in BF4-IR2.       APPROVED       YLHIYAMA         REMARK	Х	>		
Condition at VDD=3.3V.           Output signal voltage         Shall be checked by eye diagram when input 6.25Gbps         160 to 330mVp           PRBS7 differential 200mVp signal.         OPTICAL CHARACTERISTICS         160 to 330mVp           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           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           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)           Vibration         Vibration for 2 hours in 3 directions, at an amplitude of 1.5mm with the frequency range 10 to 55 [Hz].         No looseness, breakage and cracks (Visual and data transmission check before and after test)           Vibration         Vibration for 2 hours in 3 directions, at an amplitude of 1.5mm with the frequency range 10 to 55 [Hz].         No looseness, breakage and cracks (Visual and data transmission check before and after test)           Fiber clamping strength         Loading tensile force to the fiber until break for same direction with fiber exit.         > 10N           REMARK         0         APPROVED         YY.HIYAMA CHECKED         SYAMAZAKI DESIGNED         APPROVED         YY.HIYAMA CHECKED           Reach test item shall be checked by mating with suitable r	Х			
PRBS7 differential 200mVp signal.         OPTICAL CHARACTERISTICS         LED light emission       Apply V=3.0 to 3.6V at the pin, then check if LED light is (Green)       Green light shall be visible         LED light emission       Apply V=3.0 to 3.6V at the pin, then check if LED light is visible or not.       Amber light shall be visible         MECHANICAL CHARACTERISTICS       Amber light shall be visible       Amber light shall be visible         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)         Vibration       Vibration for 2 hours in 3 directions, at an amplitude of 1.5mm with the frequency range 10 to 55 [Hz].       No looseness, breakage and cracks (Visual and data transmission check before and after test)         Shock       3 times and 3 directions with the acceleration 490 [m/s²] in duration 11ms.       Phice common source in the fiber until break for same direction in the frequency range 10 to 55 [Hz].         Shock       3 times and 3 directions with the acceleration 490 [m/s²] in duration 11ms.       Phice common source in the fiber until break for same direction in the frequency range 10 to 55 [Hz].         REMARK       Each test item shall be checked by mating with suitable receptacle connector on evaluation board (BF4-IR2)       Phice common source in the fiber until break for same direction on with fiber exit.         Note QT:Qualification Test, AT:Assurance Test       DRAWING NO.       ELC-391952- ELC-	X			
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           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           MECHANICAL CHARACTERISTICS         Amber light shall be visible         Amber light shall be visible           MECHANICAL CHARACTERISTICS         IBF4-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)           Vibration         Vibration for 2 hours in 3 directions, at an amplitude of 1.5mm with the frequency range 10 to 55 [H2].         No looseness, breakage and cracks (Visual and data transmission check before and after test)           Shock         3 times and 3 directions with the acceleration 490 [m/s <sup>3</sup> ] in duration 11ms.         Fiber clamping strength         Loading tensile force to the fiber until break for same direction         > 10N           Each test item shall be checked by mating with suitable receptacle connector on evaluation board (BF4-IR2)         APPROVED         YY.HIYAMA CHECKED         CHECKED           This specifications sheet is based on using BF4MC type in BF4-IR2.         DRAWING NO.         ELC-391952- BF4-IR21R2-01-3M           Note         QT:Qualification Test, AT:Assurance Test         DRAWING NO.         ELC-391952- BF4-IR21R2-01-3M	Х	)		
(Green)       visible or not.         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         MECHANICAL CHARACTERISTICS       Meter light shall be visible       Amber light shall be visible         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)         Vibration       Vibration for 2 hours in 3 directions, at an amplitude of 1.5mm with the frequency range 10 to 55 [Hz].       No looseness, breakage and cracks (Visual and data transmission check before and after test)         Shock       3 times and 3 directions with the acceleration 490 [m/s <sup>2</sup> ] in duration 11ms.       Poloseness, breakage and cracks (Visual and data transmission check before and after test)         Fiber clamping strength       Loading tensile force to the fiber until break for same direction with fiber exit.       > 10N         REMARK       Each test item shall be checked by mating with suitable receptacle connector on evaluation board (BF4-IR2)       APPROVED       YHIYAMA CHECKED       TS.YAMAZAKI DESIGNED       SK.AOYAMA DRAWN       SK.AOYAMA DRAWN       SK.AOYAMA DRAWN       SK.AOYAMA         Note QT:Qualification Test, AT:Assurance Test       DRAWING NO.       ELC-391952-         SPECIFICATION SHEET       PART NO.       BF4-IR2IR2-01-3M	<u> I</u>			
(Amber)       visible or not.         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)         Vibration       Vibration for 2 hours in 3 directions, at an amplitude of 1.5mm with the frequency range 10 to 55 [Hz].       No looseness, breakage and cracks (Visual and data transmission check before and after test)         Shock       3 times and 3 directions with the acceleration 490 [m/s <sup>2</sup> ] in duration 11ms.       Piber clamping strength       Loading tensile force to the fiber until break for same direction with fiber exit.         Fiber clamping strength       Loading tensile force to the fiber until break for same direction with fiber exit.       > 10N         COUNT       DESCRIPTION OF REVISIONS       DESIGNED       CHECKED         A       0       REMARK       APPROVED       YY.HIYAMA         Each test item shall be checked by mating with suitable receptacle connector or evaluation board (BF4-IR2)       APPROVED       YY.HIYAMA         This specifications sheet is based on using BF4MC type in BF4-IR2.       DRAWING NO.       ELC-391952-         Note       QT:Qualification Test, AT:Assurance Test       DRAWING NO.       ELC-391952-         Specifications Sheet is based on using BF4MC type in BF4-IR2.       PART NO.       BF4-IR2IR2-01-3M	Х			
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)         Vibration       Vibration for 2 hours in 3 directions, at an amplitude of 1.5mm with the frequency range 10 to 55 [Hz].       No looseness, breakage and cracks (Visual and data transmission check before and after test)         Shock       3 times and 3 directions with the acceleration 490 [m/s²] in duration 11ms.       No looseness, breakage and cracks (Visual and data transmission check before and after test)         Fiber clamping strength       Loading tensile force to the fiber until break for same direction with fiber exit.       > 10N         COUNT       DESCRIPTION OF REVISIONS       DESIGNED       CHECKED         A       0       0       REMARK       APPROVED       YY,HIYAMA         Each test item shall be checked by mating with suitable receptacle connector or evaluation board (BF4-IR2)       APPROVED       YY,HIYAMA       CHECKED       SK.AOYAMA         This specifications sheet is based on using BF4MC type in BF4-IR2.       DRAWING NO.       ELC-391952-         Note       QT:Qualification Test, AT:Assurance Test       DRAWING NO.       ELC-391952-         SPECIFICATION SHEET       PART NO.       BF4-IR2IR2-01-3M	Х	)		
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)         Vibration       Vibration for 2 hours in 3 directions, at an amplitude of 1.5mm with the frequency range 10 to 55 [H2].       No looseness, breakage and cracks (Visual and data transmission check before and after test)         Shock       3 times and 3 directions with the acceleration 490 [m/s <sup>2</sup> ] in duration 11ms.       No looseness, breakage and cracks (Visual and data transmission check before and after test)         Fiber clamping strength       Loading tensile force to the fiber until break for same direction with fiber exit.       > 10N         COUNT       DESCRIPTION OF REVISIONS       DESIGNED       CHECKED         REMARK       0       REMARK       APPROVED       YY,HIYAMA         evaluation board (BF4-IR2)       This specifications sheet is based on using BF4MC type in BF4-IR2.       APPROVED       YY,HIYAMA         Note       QT:Qualification Test, AT:Assurance Test       DRAWING NO.       ELC-391952-         SPECIFICATION SHEET       PART NO.       BF4-IR2IR2-01-3M				
Vibration       Vibration for 2 hours in 3 directions, at an amplitude of 1.5mm with the frequency range 10 to 55 [Hz].         Shock       3 times and 3 directions with the acceleration 490 [m/s <sup>2</sup> ] in duration 11ms.         Fiber clamping strength       Loading tensile force to the fiber until break for same direction with fiber exit.         Image: COUNT       DESCRIPTION OF REVISIONS       DESIGNED         CHECKED       APPROVED       YY.HIYAMA         Each test item shall be checked by mating with suitable receptacle connector on evaluation board (BF4-IR2)       APPROVED       YY.HIYAMA         This specifications sheet is based on using BF4MC type in BF4-IR2.       DRAWING NO.       ELC-391952-         Note       QT:Qualification Test, AT:Assurance Test       DRAWING NO.       ELC-391952-         SPECIFICATION SHEET       PART NO.       BF4-IR2IR2-01-3M	Х	·		
with the frequency range 10 to 55 [Hz].         Shock       3 times and 3 directions with the acceleration 490 [m/s²] in duration 11ms.         Fiber clamping strength       Loading tensile force to the fiber until break for same direction with fiber exit. <ul> <li>COUNT</li> <li>DESCRIPTION OF REVISIONS</li> <li>DESIGNED</li> <li>CHECKED</li> <li>APPROVED</li> <li>YY.HIYAMA</li> </ul> REMARK       APPROVED       YY.HIYAMA         Each test item shall be checked by mating with suitable receptacle connector on evaluation board (BF4-IR2)       APPROVED       YY.HIYAMA         This specifications sheet is based on using BF4MC type in BF4-IR2.       DRAWING NO.       ELC-391952-         Note       QT:Qualification Test, AT:Assurance Test       DRAWING NO.       ELC-391952-         Image: Specific Sp	Х			
Shock       3 times and 3 directions with the acceleration 490 [m/s <sup>2</sup> ] in duration 11ms.         Fiber clamping strength       Loading tensile force to the fiber until break for same direction with fiber exit.         COUNT       DESCRIPTION OF REVISIONS         Description       Description         A       0         REMARK       APPROVED         Each test item shall be checked by mating with suitable receptacle connector on evaluation board (BF4-IR2)       APPROVED         This specifications sheet is based on using BF4MC type in BF4-IR2.       DRAWING NO.         Note       QT:Qualification Test,       AT:Assurance Test         DRAWING NO.       ELC-391952-         SPECIFICATION SHEET       PART NO.       BF4-IR2IR2-01-3M	Х			
490 [m/s²] in duration 11ms.         Fiber clamping strength       Loading tensile force to the fiber until break for same direction with fiber exit.       > 10N         COUNT       DESCRIPTION OF REVISIONS       DESIGNED       CHECKED         A       0       0       0         REMARK       APPROVED       YY.HIYAMA         Each test item shall be checked by mating with suitable receptacle connector on evaluation board (BF4-IR2)       APPROVED       YY.HIYAMA         This specifications sheet is based on using BF4MC type in BF4-IR2.       DRAWING NO.       ELC-391952         Note       QT:Qualification Test, AT:Assurance Test       DRAWING NO.       ELC-391952		-		
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evaluation board (BF4-IR2)       DESIGNED       SK.AOYAMA         This specifications sheet is based on using BF4MC type in BF4-IR2.       DRAWN       SK.AOYAMA         Note       QT:Qualification Test,       AT:Assurance Test       DRAWING NO.       ELC-391952         Image: specific and sp	20221			
This specifications sheet is based on using BF4MC type in BF4-IR2.       DRAWN       SK.AOYAMA         Note       QT:Qualification Test,       AT:Assurance Test       DRAWING NO.       ELC-391952-         Image: Specification Sheet is based on using BF4MC type in BF4-IR2       PART NO.       BF4-IR2IR2-01-3M	20221			
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SPECIFICATIONS									
ITEM	TEST METHOD		RE	QUIREMENTS	QT	AT			
ENVIRONMENTAL	CHARACTERISTICS								
Transportation and storage temperature and humidity test	Applying temperature and humidity load as be Testmethod Start at 23 deg.C $\Rightarrow$ -20 deg.C (72hours) $\Rightarrow$ (Ramp up time 1.5hours) $\Rightarrow$ 23 deg.C $\Rightarrow$ (Ramp down time 1.2hours) $\Rightarrow$ +60 deg.C, 90%Rh (72hours) $\Rightarrow$ 23 deg.C	low	No looseness, breakage and crack (Visual and data transmission chec before test, intermediate test and a test)		X	-			
Temperature cycling test	-40 to 85 degree Celsius with dwell time of 10r	nin,			Х	-			
High temprerature storage	100 cycles 85 degree Celsius , 1000 hours		-	Х	-				
Low temperature	-40 degree Celsius, 1000 hours				Х	-			
storage Temperature and Humidity cycling	Temperature, Humidity: -10 ⇔ 65 degree Cels w/o applying current. Number of cycle: 10 cycles, Cycle time: 24 h	ours/cycle				-			
ESD tolerance	(BF4-IR2) Applied voltage 2kV (Human Body I	Model)			x				
	T:Qualification Test AT:Assurance Test X:Applicable Test DRAWI			ELC-391952-0	0-0	0			
	PECIFICATION SHEET	PART NO.	BF4-IR2IR2-01-3N						
	ROSE ELECTRIC CO., LTD.	CODE NO	CL083	1-1275-0-00	◬	2/2			