APPLICA	BLE STAN	DARD								
	OPERATING TEMPERATUR	E RANGE -55 °C TO	85 °C				-	-10 °C TO 50 °C (PACKED	COND	
RATING	VOLTAGE	50 V AC	/ DC	HUMIC	OPERATING OR STORAGE HUMIDITY RANGE		GE F	RELATIVE HUMIDITY 90 % MAX (NOT DI	ewei
	CURRENT	0.5 A		APPLICABLE CABLE t=0.3±0.03mm, GOLD PLATII CATIONS REQUIREMENTS QT ENT. ACCORDING TO DRAWING. X ENT. ACCORDING TO DRAWING. X SOO MΩ MIN. X 100 mΩ MAX. X 2 CONTACT RESISTANCE: 100 mΩ MAX. X 3 NO DAMAGE, CRACK AND LOOSENESS OF PARTS. CONTACT RESISTANCE: 100 mΩ MAX. X 2 NO DAMAGE, CRACK AND LOOSENESS OF PARTS. X 3 NO DAMAGE, CRACK AND LOOSENESS OF PARTS. X 4 OCONTACT RESISTANCE: 100 mΩ MAX. X 3 NO DAMAGE, CRACK AND LOOSENESS OF PARTS. X 4 OCONTACT RESISTANCE: 100 mΩ MAX. X 4 NO DAMAGE, CRACK AND LOOSENESS OF PARTS. X 3 NO EVIDENCE OF CORROSION WHICH AFFECTS TO OPERATION OF CONNECTOR. X 4 OCONTACT RESISTANCE: 100 mΩ MAX. X 4 INSULATION RESISTANCE: 100 mΩ MAX. X 5 OF PARTS.	NG					
		SPE	ECIFIC	ATIO	NS				-	
	EM	TEST METHO	D			R	EQU	IREMENTS	QT	A
		VISUALLY AND BY MEASURING								
GENERAL E	AMINATION	CONFIRMED VISUALLY.		IN I .			אט כ	AWING.		
		CTERISTICS							×	×
VOLTAGE P		250 V AC FOR 1 min.			NO FL/	ASHOVE		R BREAKDOWN.	x	×
INSULATION RESISTANC		100 V DC.	/ DC.							×
		AC/DC 20 mV MAX (AC:1 KHz) , 1 mA .			100 m	2 MAX.			×	×
			,,			INCLUDING FPC,FFC BULK RESISTANCE				
-	NICAL CHA	RACTERISTICS			<u> </u>					
VIBRATION								DISCONTINUITY OF 1	×	-
SHOCK		981 m/s ² , DURATION OF PULSE 6 ms							×	+-
							ACK AND LOOSENESS			
MECHANIC/		2 NO DAMAGE, CRACK AND LOOSENESS						×	-	
OPERATION	4							ACK AND LOOSENESS		
FPC RETEN	TION FORCE	MEASURED BY APPLICABLE FPC. THICKNESS OF FPC SHALL BE t=0.30mm			DIRECTION OF INSERTION :			×	1-	
		AT INITIAL CONDITION.)			(not	ə 1)				
		CHARACTERISTICS								
CORROSIO	N SALT MIST	EXPOSED AT 35 \pm 2 $^{\circ}$ C , 5 $\%$ SALT WATER SPRAY FOR 96 h.				② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.				-
						AFFECTS TO OPERATION OF				
RAPID CHA							×	-		
		UNDER 5 CYCLES.	$\widetilde{(3)}$ NO DAMAGE, CRACK AND LOOSENESS							
DAMP HEAT (STEADY ST					OF PARTS.					-
DAMP HEAT	,	RELATIVE HUMIDITY 90 TO 95 ° EXPOSED AT -10 TO +65 °C,	יספ, אס ח.		(1) CONTACT RESISTANCE: 100 mQ MAX.					-
		RELATIVE HUMIDITY 90 TO 96	-							
		10 CYCLES,TOTAL 240 h.								
		(AT DR						T DRY)		
COUN	T DE	SCRIPTION OF REVISIONS		DESIG	NED			CHECKED		
Å 2		DIS-F-005945		HS. HIR	AHARA			FN. TAMURA	12.01.0	
REMARK	EMARK				APPROVED NM. NISHIMATSU		10.0)6.1(
This product is RoHS compliant.							ED	NM. NISHIMATSU	10.0)6. 1
Unless otherwise specified, refer to JIS C 5402.									10.0	06.1
		t AT:Assurance Test X:Applicable		DF PART						
HRS		PECIFICATION SHEE						34S-10S-0. 5SH (50	· .	1 10
ODM UDAA11_		OSE ELECTRIC CO., LT	D .	CODE	NO. CL580-1241-1-50				Λ	1/2

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×								
ctank	SPECIFICATIONS							
	ITEM	TEST METHOD						
lSL I	DRY HEAT	EXPOSED AT 85±2 °C, 96 h.	1 C					
(ISL) G0 : LG : 90	COLD	EXPOSED AT -55±3℃, 96 h.	2 N 0					
21	SULPHUR DIOXIDE	EXPOSED AT 40±2 °C ,	1 C					
	[JIS C 0090]	RELATIVE HUMIDITY 80±5%	2 N					
_		25±5 ppm FOR 96 h.	0					
2015/09/03	HYDROGEN SULPHIDE	EXPOSED AT 40±2 °C ,	3 N					
6	[JIS C 0092]	RELATIVE HUMIDITY 80±5% ,	AF					
م م		10 TO 15 ppm FOR 96 h.						
5	SOLDERABILITY	SOLDERED AT SOLDER TEMPERATURE,	A NE					
N		235±5°C FOR IMMERSION DURATION,	SHAL					
		2±0.5 sec.	THE					
	RESISTANCE TO	1) REFLOW SOLDERING :	NO					
	SOLDERING HEAT	PEAK TMP. 250 °C MAX	EXC					

2) SOLDERING IRONS :

REFLOW TMP. OVER 230 °C WITHIN 60 sec.

TMP. 350 ± 10 °C FOR 5±1 sec.

(note1)

FASTEN FPC ON PCB OR SOMETHING FIXED IF FORCE IN VERTICAL DIRECTION SHALL BE PREDICTED. DO NOT CLOSE THE ACTUATOR BEFORE INSERTING FPC EVEN AFTER THE CONNECTOR IS MOUNTED ONTO A PCB. CLOSING THE ACTUATOR WITHOUT FPC COULD MAKE THE CONTACT GAP SMALLER, WHICH INCREASES THE FPC INSERTION FORCE.

QT AT

× _

× _

× _____

×

×

×

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REQUIREMENTS

(1) CONTACT RESISTANCE: 100 m Ω MAX.

2 NO DAMAGE, CRACK AND LOOSENESS

(Î) CONTACT RESISTANCE: 100 m Ω MAX.

2 NO DAMAGE, CRACK AND LOOSENESS

③ NO EVIDENCE OF CORROSION WHICH

A NEW UNIFORM COATING OF SOLDER

SHALL COVER A MINIMUM OF 95 % OF THE SURFACE BEING IMMERSED. NO DEFORMATION OF CASE OF

EXCESSIVE LOOSENESS OF THE

AFFECTS TO OPERATION OF

OF PARTS

OF PARTS.

TERMINALS.

CONNECTOR.

THIS CONNECTOR HAS CONTACTS ON THE TOP.

Note QT:Q	ualification Test AT:Assurance Test X:Applicable Test	DRAWIN	IG NO.	ELC4-332493-01			
HRS	SPECIFICATION SHEET	PART NO.	▲ FH34S-10S-0. 5SH (50)				
	HIROSE ELECTRIC CO., LTD.	CODE NO	CL580	-1241-1-50	⚠	2/2	

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3





and FH34S FPC design(top contact).

And the stiffener length to be 3.5mmMIN. (The pin numbers will not be compatible)

	4	PHOS (PLA	PHOR BRONZE	TIN PLATING (REFLOW FINISHED) 1≠mMIN OVER COPPER 0.3≠m MIN							
	3	PHO	SPHOR BRONZ	E	(CONTACT (OTHER)	NICKE	A.LEAD) GO Ov El plating	LD PLATING (ER NICKEL 14 14mm/IN).05≄mM ¤m MIN		
	2	2 PA 1 LCP NO. MATERIAL			BLACK UL94V-0						
	1				BEIGE UL94V-0						
	N0.				FINISH , REMARKS						
	UNIT	S			ALE		COUNT	DESCR	IPTIO		
	mm			7	: 1	\wedge	9	DIS-F	-005		
				APPROVED : NM. NISHIMATSU							
			HIROSE	HIROSE ELECTRIC		CHECED : NM. NISHIMATSU					
	HRS HIROSE ELECTRIC CO LTD.			DESIGNED : FN. TAMURA							
					DRAWN : SG. MASAKI						
	5						6				





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[Precautions for design]

- During FPC wiring ensure that stress is not applied Do not bend the FPC excessively near the connector of contact failure or FPC breakage. Stabilizing the FPC is recommended.
- 2. Keep a sufficient FPC insertion space in the stage of incorrect FPC insertion. Appropriate FPC length and component layout are record Too short FPC length makes assembly difficult.
- 3. Follow the recommended PCB mounting pattern, stentil
- 4. Make adjustments with the FPC manufacturer for FPC
- 5. Keep spaces for the actuator movement and its opera

[Other instructions]

5

4

Instructions on manual soldering Follow the instructions shown below when soldering the

- 1. Do not perform manual soldering with the FPC inser
- 2. Do not heat the connector excessively. Be very care any parts other than connector leads. Otherwise, the
- 3. Do not apply excessive solder(or flux). If excessive solder(or flux) is applied on the term: contacts or rotating parts of the actuator, resulting

Supplying excessive solder to the metal fittings mi resulting in breakage of the connector.

6

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directly to the connector. during use or it may cause	В
of the layout in order to avoid ommended for assembly ease.	
pattern and FPC pattern. bending performance and wire breakage. tion for PCB design and component layout.	
	С
he connector manually during repair work,etc. ted into the connector. ful not to let the soldering iron contact connector may be deformed or melt.	
inals, solder or flux may adhere to the ng in poor contact or a rotation failure of ay hinder actuator rotation,	D
	E
NSTRUCTION MANUAL 2> $PRE = \frac{PRE}{PART} = 0 = FU245 = 105 = 0 = FU245 = 105$	F
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	

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