

# THE DATASHEET OF FH58-35S-0.2SHW

APPLICA	BLE STAN	IDARD									
	Operating temperature range  Voltage		-55°C to 85°C	D		erature		-1	10℃ TO 50℃(packed	cond	ition)
RATING			30V AC/DC Oper			ating or dity ran	storage ge	Re	Relative humidity 90%MAX(n		
	Current		0.20A		Appli	cable ca	able		t=0.2±0.02mm, gold p	lating	J
			SPEC	IFICA	TIOI	NS					
IT	EM		TEST METHOD				RE	QUII	REMENTS	QT	АТ
CONSTR	UCTION	•				•					
General exar	mination	Visually a	and by measuring instrumen	nt.		According to drawing.				×	×
Marking		Confirme	d visually.			(note 1,2)				×	×
ELECTRI	CAL CHA	RACTE	RISTICS								
Voltage proo	f	90V AC for 1 min.			No flashover or breakdown.				×	×	
Insulation resistance		100V DC.			50MΩ MIN.				×	×	
Contact resistance		20mV AC MAX, 1mA.			300mΩ MAX. Including FPC, FFC bulk resistance (L=8mm)				×	×	
MECHAN	IICAL CH	ARACTE	RISTICS								
Vibration		Frequenc	Frequency 10 to 55 Hz, half amplitude 0.75 mm,			① No	electrical d	isco	ntinuity of 1us	×	_
		for 10 cycles in 3 axial directions.				① No electrical discontinuity of 1μs. ② Contact resistance: 300mΩ MAX.					
Shock		981 m/s <sup>2</sup> , duration of pulse 6 ms at 3 times in 3 both axial directions.							and loose parts.	×	
Mechanical o	peration	10 times	10 times insertions and extractions.			<ol> <li>Contact resistance: 300mΩ MAX.</li> <li>No damage, crack and loose parts.</li> </ol>				×	-
FPC retentio	n force		Measured by applicable FPC. (thickness of FPC shall be t=0.20mm at initial ondition)			Direction of insertion: (0.14 × n)+1N MIN( <i>note 3</i> ) (n: Number of contacts)			×	-	
ENVIRO	NMENTAL	,	ACTERISTICS	at initial ona	11.011)	(11. 1401	TIDET OF COL	itact	3)		
					_			: 300mΩ MAX.	×	_	
Corrosion salt mist		Exposed at 35±2°C, 5% salt water spray for 96h.			<ul><li>② No damage, crack and loose parts.</li><li>③ No evidence of corrosion which affects connector's operation.</li></ul>						
Rapid change of temperature		Temperature-55 $\rightarrow$ +15To+35 $\rightarrow$ +85 $\rightarrow$ +15To+35°C Time 30 $\rightarrow$ 2 To 3 $\rightarrow$ 30 $\rightarrow$ 2 To 3 min			① Contact resistance: 300mΩ MAX. ② Insulation resistance: 50MΩ MIN.				×	_	
Damp heat		Under 5 cycles.  Exposed at 40±2°C,			No damage, crack and loose parts.				×	+-	
steady state	e)		umidity 90 to 95%, 96h.			_					
Damp heat,cyclic		Exposed at -10 to +65°C, relative humidity 90 to 96%, 10 cycles, total 240h.			<ol> <li>Contact resistance: 300mΩ MAX.</li> <li>Insulation resistance: 1MΩ MIN.         <ul> <li>(at high humidity)</li> </ul> </li> <li>Insulation resistance: 50MΩ MIN.         <ul> <li>(at dry)</li> </ul> </li> <li>No damage, crack and loose parts.</li> </ol>			×	_		
Dry heat		Exposed	Exposed at 85±2°C, 96h.			① Contact resistance: 300mΩ MAX.				×	1-
Cold			osed at -55±3°C, 96h.			② No damage, crack and loose parts.				×	-
Sulphur dioxide [JIS C 60068-2-42]		relative h	sed at 40±2°C, /e humidity 80±5%, 5ppm for 96h.			<ol> <li>Contact resistance: 300mΩ MAX.</li> <li>No damage, crack and loose parts.</li> </ol>				×	
Hydrogen sulphide [JIS C 60068-2-43]		relative h	l at 40±2°C, numidity 80±5%, opm for 96h.			No evidence of corrosion which affects connector's operation.			×	_	
COUNT DESCRIPT			ON OF REVISIONS DESIG			GNED CHECKED			CHECKED	DATE	
				<u> </u>			1.5				
REMARK					APPROVE					06. 07	
						CHECKEI		-+	YH. MICHIDA	16.06	
الانتاجة علمالا		ا د اداند	ified refer to IEC 60512						SI. MIZUSAWA	16. 06. 07 16. 06. 06	
Unless otherwise specified,						DRAWN DRAWN		١	OTNIEL RINALDO 16.  ELC-370587-00-0		
Note QT:Qualification Test AT						RAWING NO.			FH58-**S-0. 2SHW		J
$\Pi$			PECIFICATION SHEET PART						^	4 /0	
		OSE ELECTRIC CO., LTD. CODE			: NO.		(	CL580 2		1/2	

SPECIFICATIONS								
ITEM	TEST METHOD	REQUIREMENTS	QT	АТ				
Solderability	Soldered at solder temperature 245±3°C,	A new uniform coating of solder shall cover a minimum of 95% of the surface being immersed.	×	_				
Resistance to soldering heat	<ol> <li>Reflow soldering:     peak tmp. 250°C MAX.     reflow tmp. over 230°C within 60 sec.</li> <li>Soldering irons:     tmp. 350±10°C for 5±1 sec.</li> </ol>	No case-deformation and loose contacts. (note 4)	×	_				

## (note1)

This connector is back flip lock type, and top/bottom both contact points are available.

## (note2)

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.

# (note3)

If pull-up or pull-down force is exepected to be applied to the FPC, stabilize the FPC into PCB or other fixed components.

## (note4)

Blisters which may be generated on the housing do not affect product performance.

Note (	Note QT:Qualification Test AT:Assurance Test X:Applicable Test			IG NO.	ELC-370587-00-00			
H	RS SPECIFICATION SHEET		PART NO. FH58-**S-0. 2SHW					
	)	HIROSE ELECTRIC CO., LTD.	CODE NO		CL580	$\triangle$	2/2	