

In case of consideration for using Automotive equipment / device which demand high reliability, kindly contact our sales window correspondents.

APPLICABLE STANDARD		TEST METHOD		REQUIREMENTS		Q/T	AT
RATING	OPERATING TEMPERATURE RANGE	-55 °C TO 85 °C <sup>(1)</sup>	STORAGE TEMPERATURE RANGE	-10 °C TO 60 °C <sup>(2)</sup>		X	X
	VOLTAGE	100 V AC	OPERATING HUMIDITY RANGE	40 % TO 80 %		X	X
	CURRENT	0.5 A	STORAGE HUMIDITY RANGE	60 % RH MAX <sup>(2)</sup>			
<b>SPECIFICATIONS</b>							
ITEM	TEST METHOD		REQUIREMENTS		Q/T	AT	
<b>CONSTRUCTION</b>							
GENERAL EXAMINATION	VISUALLY AND BY MEASURING INSTRUMENT.		ACCORDING TO DRAWING.		X	X	
MARKING	CONFIRMED VISUALLY.				X	X	
<b>ELECTRIC CHARACTERISTICS</b>							
CONTACT RESISTANCE	100 mA (DC OR 1000 Hz).		50 m $\Omega$ MAX.		X	-	
CONTACT RESISTANCE MILLIVOLT LEVEL METHOD	20 mV MAX. 1 mA(DC OR 1000Hz)		60 m $\Omega$ MAX.		X	-	
INSULATION RESISTANCE	250 V DC		100 M $\Omega$ MIN.		X	-	
VOLTAGE PROOF	300 V AC FOR 1 min.		NO FLASHOVER OR BREAKDOWN.		X	-	
<b>MECHANICAL CHARACTERISTICS</b>							
MECHANICAL OPERATION	500 TIMES INSERTIONS AND EXTRACTIONS.		① CONTACT RESISTANCE: 60 m $\Omega$ MAX. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.		X	-	
VIBRATION	FREQUENCY 10 TO 55 Hz. AMPLITUDE : 1.52mm, 10 CYCLES IN 3 DIRECTIONS.		① NO ELECTRICAL DISCONTINUITY OF 1 $\mu$ s. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.		X	-	
SHOCK	490 m/s <sup>2</sup> , DURATION OF PULSE 11 ms FOR 3 TIMES IN 3 DIRECTIONS.				X	-	
<b>ENVIRONMENTAL CHARACTERISTICS</b>							
DAMP HEAT (STEADY STATE)	EXPOSED AT 40 $\pm$ 2 °C, 90 ~ 95 %, 96 hrs.		① CONTACT RESISTANCE: 60 m $\Omega$ MAX. ② INSULATION RESISTANCE: 100 M $\Omega$ MIN. ③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.		X	-	
RAPID CHANGE OF TEMPERATURE	TEMPERATURE: -55 $\rightarrow$ +15 $\rightarrow$ +35 $\rightarrow$ +85 $\rightarrow$ +15 $\rightarrow$ +35 $\rightarrow$ C TIME 30 $\rightarrow$ 2 $\sim$ 3 $\rightarrow$ 30 $\rightarrow$ 2 $\sim$ 3 min 5 CYCLES.				X	-	
DRY HEAT	EXPOSED AT 85 °C, 96 h.		① CONTACT RESISTANCE: 60 m $\Omega$ MAX. ② NO DAMAGE, CRACK AND LOOSENESS OF PART		X	-	
CORROSION SALT MIST	EXPOSED IN 5 % SALT WATER SPRAY FOR 48 hrs.		① CONTACT RESISTANCE: 60 m $\Omega$ MAX. ② NO HEAVY CORROSION.		X	-	
SULPHUR DIOXIDE	EXPOSED IN 10 PPM FOR 96 hrs. (TEST STANDARD: JEIDA 39)				X	-	
RESISTANCE TO SOLDERING HEAT	1) REFLOW SOLDERING : 240 °C MAX, : 200 °C MIN, FOR 60 s 2) SOLDERING IRONS : 360 °C, FOR 5 s		NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS.		X	-	
SOLDERABILITY	SOLDERED AT SOLDER TEMPERATURE, 240 $^{\circ}$ C, FOR IMMERSION DURATION, 3 sec.		A NEW UNIFORM COATING OF SOLDER SHALL COVER A MINIMUM OF 95 % OF THE SURFACE BEING IMMERSERD.		X	-	
COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE			
$\Delta$	REMARK <sup>(1)</sup> TEMPERATURE RISE INCLUDED WHEN ENERGIZED. <sup>(2)</sup> THIS STORAGE INDICATES A LONG-TERM STORAGE STATE FOR THE UNUSED PRODUCT BEFORE THE BOARD MOUNTED.  Unless otherwise specified, refer to JIS C 5402		APPROVED	HS. OKAWA	06.10.04		
			CHECKED	HS. OZAWA	06.10.04		
			DESIGNED	KT.001	06.10.03		
			DRAWN	KT.001	06.10.03		
Note QT:Qualification Test AT:Assurance Test X:Applicable Test		DRAWING NO.	ELC4-151389-21				
<b>HRS</b>		SPECIFICATION SHEET	PART NO.	FX5-52P-SH3 (71)			
		HIROSE ELECTRIC CO., LTD.	CODE NO.	CL575-0046-5-71		$\Delta$	1/1