

APPLICABLE STANDARD		TEST METHOD		REQUIREMENTS		QT	AT												
Rating	Operating Temperature Range	-55 °C to 85 °C ⁽¹⁾		Storage Temperature Range	-10 °C to 60 °C ⁽²⁾														
	Voltage	50 V AC		Storage Humidity Range	Relative humidity 85% max (Not dewed)														
	Current	0.7 A		Operating Humidity Range															
SPECIFICATIONS																			
ITEM	TEST METHOD			REQUIREMENTS			QT	AT											
CONSTRUCTION																			
General Examination	Visually and by measuring instrument.			According to drawing.			X	X											
Marking	Confirmed visually.						X	X											
ELECTRIC CHARACTERISTICS																			
Contact Resistance	100 mA(DC or 1000HZ)	70m Ω MAX.		X			-												
Insulation Resistance	100 V DC.	100 MΩ MIN.		X			-												
Voltage Proof	150 V AC for 1 min.	No flashover or breakdown.		X			X												
MECHANICAL CHARACTERISTICS																			
Insertion and Withdrawal Forces	Measured by applicable connector.			Insertion Force: 42.5 N MAX. Withdrawal Force: 4.25 N MIN.			X	-											
Mechanical Operation	50 times insertions and extractions.			① Contact Resistance : 80m Ω MAX. ② No damage, crack and looseness of parts.			X	-											
Vibration	Frequency 10 to 55 to 10Hz; approx 5min Single amplitude : 0.75 mm, 10 cycles for 3 axial directions.			① No electrical discontinuity of 1 μs. ② No damage, crack and looseness of parts.			X	-											
Shock	490 m/s ² , duration of pulse 11 ms at 3 times for 3 both axial directions.						X	-											
ENVIRONMENTAL CHARACTERISTICS																			
Damp Heat (Steady state)	Exposed at 40±2 °C, 90 ~ 95 %, 96 h.			① Contact Resistance : 80m Ω MAX. ② Insulation Resistance:100 MΩ MIN. ③ No damage, crack and looseness of parts.			X	-											
Rapid Change of Temperature	Temperature -55 → +85 °C Time 30 → 30 min. under 5 cycles. (Relocation time to chamber : within 2~3 MIN)						X	-											
Cold	Exposed at -55°C, 96 h			① Contact Resistance : 80m Ω ② No damage, crack and looseness of parts.			X	-											
Dry/Heat	Exposed at 85°C, 96 h						X	-											
Sulfur Dioxide	Exposed at 25±2°C, 75±5%RH, 25 PPM for 96 h. (Test standard: JIS C 60068)			① No defect such as corrosion which impairs the function of connector. ② Contact Resistance : 80m Ω			X	-											
Resistance to Soldering Heat	1) Reflow soldering : Peak TMP : 260°C MAX Reflow TMP: 220°C MIN for 60sec 2) Soldering Irons : 360°C MAX. for 5 sec.			No deformation of case of excessive looseness of the terminal.			X	-											
Solderability	Soldered at solder temperature 245±3°C. for immersion duration, 3 sec.			A new uniform coating of solder shall cover a minimum of 95 % of the surface being immersed.			X	-											
Δ	COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE														
REMARKS ⁽¹⁾ Include temperature rise caused by current-carrying. ⁽²⁾ "STORAGE" means a long-term storage state for the unused product before assembly to PCB.																			
Note		QT:Qualification Test AT:Assurance Test X:Applicable Test	DRAWING NO.	ELC4-352597-00															
Unless otherwise specified, refer to JIS-C-5402.																			
<table border="1"> <thead> <tr> <th>APPROVED</th> <th>HS. OKAWA</th> <th>14.09.30</th> </tr> </thead> <tbody> <tr> <td>CHECKED</td> <td>KN. SHIBUYA</td> <td>14.09.30</td> </tr> <tr> <td>DESIGNED</td> <td>AH. EDASHIGE</td> <td>14.09.30</td> </tr> <tr> <td>DRAWN</td> <td>AH. EDASHIGE</td> <td>14.09.30</td> </tr> </tbody> </table>								APPROVED	HS. OKAWA	14.09.30	CHECKED	KN. SHIBUYA	14.09.30	DESIGNED	AH. EDASHIGE	14.09.30	DRAWN	AH. EDASHIGE	14.09.30
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SPECIFICATION SHEET		PART NO.	FX22-50P-0.5SH																
HIROSE ELECTRIC CO., LTD.		CODE NO.	CL572-3002-7-00																
HRS						1/1													

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