

APPLICABLE STANDARD		TEST METHOD		REQUIREMENTS		QT	AT	
Rating	Operating Temperature Range	-55 °C to 85 °C <sup>(1)</sup>		Storage Temperature Range	-10 °C to 60 °C <sup>(2)</sup>			
	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
<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 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	
<b>MECHANICAL CHARACTERISTICS</b>								
Insertion and Withdrawal Forces	Measured by applicable connector.			Insertion Force: 36 N MAX. Withdrawal Force: 3.6 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 <sup>2</sup> , duration of pulse 11 ms at 3 times for 3 both axial directions.				X			
<b>ENVIRONMENTAL CHARACTERISTICS</b>								
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			
<b>REMARKS</b> <sup>(1)</sup> Include temperature rise caused by current-carrying. <sup>(2)</sup> "STORAGE" means a long-term storage state for the unused product before assembly to PCB.								
Unless otherwise specified, refer to JIS-C-5402.								
Note QT:Qualification Test AT:Assurance Test X:Applicable Test		DRAWING NO.	ELC4-352596-00					
<b>HRS</b>		SPECIFICATION SHEET		PART NO.	FX22-40P-0.5SH			
		HIROSE ELECTRIC CO., LTD.		CODE NO.	CL572-3001-4-00			
		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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