

In case of consideration for using Autom otive equipm ent/device which dem and high reliability, kindly contactour sales w indow correspondents.

APPLICABLE STANDARD		TEST METHOD		REQUIREMENTS		Q/T	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	0.5 A	Operating Humidity Range					
SPECIFICATIONS								
ITEM	TEST METHOD			REQUIREMENTS			Q/T	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)		70 mΩ 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: 70 N MAX. Withdrawal Force: 8.6 N MIN.		X	-	
Mechanical Operation	50 times insertions and extractions.			① Contact Resistance: Variation from initial value 20 mΩ or less.		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: Variation from initial value 20 mΩ or less.		X	-	
Rapid Change of Temperature	Temperature -55 → +85 °C Time 30 → 30 min. Under 5 cycles. (Relocation time to chamber:within 2~3 MIN)			② Insulation Resistance : 100 MΩ MIN. ③ No damage, crack and looseness of parts.		X	-	
Cold	Exposed at -55°C, 96 h			① Contact Resistance: Variation from initial value 20 mΩ or less.		X	-	
Dry Heat	Exposed at 85°C, 96 h			② No damage, crack and looseness of parts.		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: variation from initial value 20 mΩ or less.		X	-	
Resistance to Soldering Heat	1)Reflow Soldering : Peak TMP : 260°CMAX Reflow TMP: 220°CMIN 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 240±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	-	
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 unpacked part before assembly to PCB.								
Unless otherwise specified, refer to JIS-C-5402.								
Note	QT:Qualification Test	AT:Assurance Test	X:Applicable Test	DRAWING NO.	ELC4-336322-01			
HRS	SPECIFICATION SHEET			PART NO.	FX20-100P-0.5SV15(10)			
	HIROSE ELECTRIC CO., LTD.			CODE NO.	CL570-1004-9-10			
				APPROVED	HS. OKAWA			14.05.30
				CHECKED	KN. SHIBUYA			14.05.30
			DESIGNED	TS. 00NO			14.05.30	
			DRAWN	TS. 00NO			14.05.30	