

Applicable standard					
Rating	Operating temperature range	-55 °C to +125 °C (95 %RH Max.)	Storage temperature range	-55 °C to +125 °C (95 %RH Max.)	
	Power	-- W	Characteristic impedance	50 Ω(0 to 30 GHz) \triangle_3	
	Peculiarity	----	Applicable cable	0.085 inch coaxial cable	
SPECIFICATIONS					
ITEM		TEST METHOD		REQUIREMENTS	QT AT
CONSTRUCTION					
General examination		Visually and by measuring instrument.		According to drawing.	X X
Marking		Confirmed visually.			- -
ELECTRICAL CHARACTERISTICS					
Contact resistance		100 mA Max.(DC or 1000 Hz)	Center contact 6 mΩ Max.	X	X
			Outer contact 6 mΩ Max.	X	X
Insulation resistance		500 V DC.	1000 MΩ min.	X	X
Withstanding voltage		500 V AC for 1 min. current leakage 2 mA Max.	No flashover or breakdown.	X	X
Voltage standing wave ratio \triangle_3		Frequency 0 to 30 GHz.	VSWR 1.3 Max. (0 to 15 GHz)	X	-
		VSWR when connecting with SMP[FD]-HKP	VSWR 1.5 Max. (15 to 30 GHz)		
Insertion loss		Frequency to GHz.	---- dB Max.	-	-
		Frequency to GHz.	---- dB Max.		
MECHANICAL CHARACTERISTICS					
Contact insertion and extraction forces		ϕ 0.35 $\begin{smallmatrix} 0 \\ -0.005 \end{smallmatrix}$ by steel gauge.	Insertion force ---- N Max.	-	-
			Extraction force 0.2 N Min.	X	-
Insertion and extraction forces		Measured by applicable connector.	Insertion force 65 N Max.	X	-
			Extraction force 16 N Min.	X	-
Mechanical operation		100 times insertion and extractions.	1)Contact resistance: Center contact 12 mΩ Max. Outer contact 12 mΩ Max. 2)No damage, crack and looseness of parts.	X	-
Vibration		Frequency 10 to 500 Hz single amplitude 0.75 mm, 98 m/s ² at 12 cycles for 3 directions.	1)No electrical discontinuity of 1 μs. 2)No damage, crack and looseness of parts.	X	-
Shock		490 m/s ² directions of pulse 11 ms at 3 times for 3 directions.		X	-
Cable clamp strength (Against cable pull)		Using a pulling tester, pull the cable axially at a rate of 30 mm/min. and record the strength at which the cable or connector breaks.	40 N Min.	X	-
ENVIRONMENTAL CHARACTERISTICS					
Damp heat		Exposed at +25 to +65 °C, 90 to 98 % total 10 cycles.(240 h)	1)Insulation resistance: 100 MΩ Min. (at high humidity) 2) Insulation resistance: 1000 MΩ Min. (at dry) 3)No damage, crack and looseness of parts.	X	-
Rapid change of temperature		Temperature -55 → - → +125 → - °C Time 30 → 3 → 30 → 3 min. Under 5 cycles.	No damage, crack and looseness of parts.	X	-
Corrosion salt mist		Exposed in 5 % salt water spray for 48 h.	VSWR 1.3 Max. (0 to 15 GHz) VSWR 1.5 Max. (15 to 30 GHz) \triangle_3	X	-
	Count	Description of revisions	Designed	Checked	Date
\triangle	3	DIS-D-00008978	SR.AIHARA	MT.KANEKO	20210916
Remark			Approved	TO.KATAYAMA	20171101
			Checked	KY.SHIMIZU	20171101
			Designed	TM.YOSHIDA	20171101
			Drawn	TM.YOSHIDA	20171101
Unless otherwise specified, refer to IEC 60512.					
Note QT:Qualification Test AT:Assurance Test X:Applicable Test			Drawing No.	ELC-373427-00-00	
HRS	SPECIFICATION SHEET		Part No.	SMP-J-SF085	
	HIROSE ELECTRIC CO., LTD.		Code No.	CL0338-1100-0-00	3 1/1