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

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 ⁰ _{-0.005} 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	3	DIS-D-00008978	SR.AIHARA	MT.KANEKO	20210916
Remark			Approved	TO.KATAYAMA	20171101
			Checked	KY.SHIMIZU	20171101
			Designed	TM.YOSHIDA	20171101
Unless otherwise specified, refer to IEC 60512.			Drawn	TM.YOSHIDA	20171101
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