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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 40 GHz)
	Peculiarity	----	Applicable cable	----

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
ELECTRICAL CHARACTERISTICS				
Contact resistance	100 mA Max.(DC or 1000 Hz)	Center contact 8 mΩ Max.	X	X
		Outer contact 4 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	Frequency 0 to 18 GHz. Frequency 18 to 26.5 GHz Frequency 26.5 to 40 GHz.	VSWR 1.1 Max. VSWR 1.15 Max. VSWR 1.2 Max.	X	X
Insertion loss	Frequency 0 to 40 GHz.	$0.03+0.03\sqrt{f}$ dB Max. ③	X	X
MECHANICAL CHARACTERISTICS				
Contact insertion and extraction forces	φ by steel gauge.	Insertion force --- N Max.	–	–
		Extraction force --- N Min.	–	–
Insertion and extraction forces	Measured by applicable connector.	Insertion force --- N Max.	—	—
		Extraction force --- N Min.	—	—
Mechanical operation	1000 times insertion and extractions.	1)Contact resistance: Center contact 12 mΩ Max. Outer contact 8 mΩ Max. 2)No damage, crack and looseness of parts.	X	—
Vibration	Frequency 10 to 2000 Hz single amplitude 0.75 mm, 196 m/s^2 at 10 cycles for 3 directions.	1)No electrical discontinuity of 1 μs. 2)No damage, crack and looseness of parts.	X	—
Shock	1960 m/s^2 directions of pulse 6 ms at 3 times for 6 directions.		X	—
Cable clamp strength (Against cable pull)	Using a pulling tester, pull the cable axially at a rate of mm/min. and record the strength at which the cable or connector breaks.	N Min.	—	—
ENVIRONMENTAL CHARACTERISTICS				
Damp heat	Exposed at -10 to +65 °C, 90 to 98 % total 10 cycles.(240 h)	1)Insulation resistance: 100 MΩ Min. ③ (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 -65 → — →+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 1.1 Max. (Frequency 0 ～ 18 GHz.) 1.15 Max.(Frequency18～26.5 GHz.) 1.2 Max. (Frequency 26.5～40 GHz.)	X	—

	Count	Description of revisions	Designed	Checked	Date
③	2	DIS-D-00003383	TK.SAWAGUCHI	KY.SHIMIZU	18.08.03

Remark

Unless otherwise specified, refer to IEC 60512.

Approved	KY.SHIMIZU	17.03.15
Checked	KY.SHIMIZU	17.03.15
Designed	TY.OZAKI	17.03.15
Drawn	TY.OZAKI	17.03.15

Note QT:Qualification Test AT:Assurance Test X:Applicable Test

HRS	SPECIFICATION SHEET	Drawing No.	ELC-374783-00-00	
		Part No.	HK-A-PP	
	HIROSE ELECTRIC CO., LTD.	Code No.	CL338-0099-0-00	③ 1/1

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