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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		MIL-STD-348B		
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)
	Peculiarity	----	Applicable cable	----

**SPECIFICATIONS**

ITEM	TEST METHOD	REQUIREMENTS	QT	AT
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**CONSTRUCTION**

General examination	Visually and by measuring instrument.	According to drawing.	X	X
Marking	Confirmed visually.		-	-

**ELECTRICAL CHARACTERISTICS**

Contact resistance	100 mA (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	
V.S.W.R. ①	Frequency	0 to 6 GHz.	V.S.W.R.	1.2 Max.	X	-
	Frequency	6 to 25 GHz.	V.S.W.R.	1.35 Max.	X	-
	Frequency	25 to 30 GHz.	V.S.W.R.	1.5 Max.	X	-
Insertion loss	Frequency	- to - GHz.	--- dB Max.		-	-

**MECHANICAL CHARACTERISTICS**

Contact insertion and extraction forces	φ --- by steel gauge.	Insertion force	--- N Max.	-	-
		Extraction force	--- N Min.	-	-
Insertion and extraction forces ①	Measured by applicable connector. [SMPJ-HKJ]	Insertion force	65 N Max.	X	-
		Extraction force	16 N Min.	X	-
Mechanical operation ①	100 times insertion and extractions.	1)Contact resistance:		X	-
		Center contact	12 mΩ Max.		
		Outer contact	12 mΩ Max.		
		2)No damage, crack and looseness of parts.			
Vibration ①	Frequency 10 to 500 Hz single amplitude 0.75 mm, 98 m/s <sup>2</sup> at 10 cycles for 3 directions.	1)No electrical discontinuity of 1 μs.		X	-
		2)No damage, crack and looseness of parts.			
Shock ①	490 m/s <sup>2</sup> 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 --- mm/min. and record the strength at which the cable or connector breaks.	--- N Min.		-	-

**ENVIRONMENTAL CHARACTERISTICS**

Damp heat ①	Exposed at +25 to +65 °C, 90 to 98 % total 10 cycles.(240h)	1)Insulation resistance: 100 MΩ Min. (at high humidity)		X	-
		2) Insulation resistance (at dry): 1000 MΩ Min.			
		3)No damage, crack and looseness of parts.			
Rapid change of temperature ①	Temperature -55 → - → +125 → - °C Time 30 → 3 → 30 → 3 min. Under 5 cycles.	No damage, crack and looseness of parts.		X	-
Corrosion salt mist ①	Exposed in 5 % salt water spray for 48 h.	V.S.W.R.	1.2 Max. [0 to 6 GHz]	X	-
		V.S.W.R.	1.35 Max. [6 to 25 GHz]		
		V.S.W.R.	1.5 Max. [25 to 30 GHz]		

Count	Description of revisions	Designed	Checked	Date
△				

Remark Note ① The characteristic after mounting on the board.	Approved	TO.KATAYAMA	18.06.08
	Checked	KY.SHIMIZU	18.06.08
	Designed	TM.YOSHIDA	18.06.08
	Drawn	TM.YOSHIDA	18.06.08

Note QT:Qualification Test AT:Assurance Test X:Applicable Test		Drawing No.	ELC-373491-00-00
<b>HRS</b>	SPECIFICATION SHEET	Part No.	SMP-LPR(FD)-SMT-1
	HIROSE ELECTRIC CO., LTD.	Code No.	CL338-1105-0-00
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