

May.1.2023 Copyright 2023 HIROSE ELECTRIC CO., LTD. All Rights Reserved.
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	-20 °C to +70 °C (90 %RH Max.)
	Power	-- W	Characteristic impedance	50 Ω (0 to 30 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.		-	-

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 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	45 N Max.	X	X
		Extraction force	9 N Min.	X	X
Mechanical operation ①	500 times insertion and extractions.	1)Contact resistance: Center contact 12 mΩ Max. Outer contact 12 mΩ Max.		X	-
		2)No damage, crack and looseness of parts.			
Vibration ①	Frequency 10 to 500 Hz single amplitude 0.75 mm, 98 m/s ² at 10 cycles for 3 directions.	1)No electrical discontinuity of 1 μs.		X	-
		2)No damage, crack and looseness of parts.		X	-
Shock ①	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 --- 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. (240 h)	1)Insulation resistance: 100 MΩ Min. (at high humidity)		X	-
		2) Insulation resistance: 1000 MΩ Min. (at dry)			
		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. 1.5 Max. [0 to 30 GHz]		X	-

Count	Description of revisions	Designed	Checked	Date
△ 1	DIS-D-00003210	TK.SAWAGUCHI	KY.SHIMIZU	18.06.07

Remark RoHS COMPLIANT Note ① The characteristic after mounting on the board.	Approved	TO.KATAYAMA	17.09.05
	Checked	KY.SHIMIZU	17.09.05
	Designed	TK.SAWAGUCHI	17.09.05
	Drawn	TK.SAWAGUCHI	17.09.05

Unless otherwise specified, refer to IEC 60512.

Note QT:Qualification Test AT:Assurance Test X:Applicable Test	Drawing No.	ELC-373488-00-00		
HRS	SPECIFICATION SHEET	Part No.	SMP-PR(LD)-SMT-1	
	HIROSE ELECTRIC CO., LTD.	Code No.	CL338-1103-0-00	△ 1/1