




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 18 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 Max.(DC or 1000 Hz)		Center contact 10 mΩ Max.	X	X	
			Outer contact 10 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	
Return loss	Frequency 0 to 18 GHz.		Return loss 20 dB Min.	X	X	
Insertion loss	Frequency - to - GHz.		--- dB Max.	—	—	
MECHANICAL CHARACTERISTICS						
Contact insertion and extraction forces (HRM)	φ by steel gauge.		Insertion force --- N Max.	—	—	
			Extraction force --- N Min.	—	—	
Contact insertion and extraction forces (SMP)	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	500 times insertion and extractions.		1)Contact resistance: Center contact 18 mΩ Max. Outer contact 18 mΩ Max.	X	—	
			2)No damage, crack and looseness of parts.			
Vibration	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	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	Exposed at -10 to +65 °C, 90~98 % 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 -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.		Return loss 20 dB Min.	X	—	
	Count	Description of revisions	Designed	Checked	Date	
Remark RoHS COMPLIANT			Approved	KY.SHIMIZU	16.11.04	
			Checked	KY.SHIMIZU	16.11.04	
			Designed	TY.OZAKI	16.11.04	
Unless otherwise specified, refer to IEC 60512.			Drawn	TY.OZAKI	16.11.04	
Note QT:Qualification Test AT:Assurance Test X:Applicable Test		Drawing No.	ELC-364325-00-00			
	SPECIFICATION SHEET		Part No.	HRMP-SMPP-18G		
	HIROSE ELECTRIC CO., LTD.		Code No.	CL311-0006-0-00	 1/1	