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Applicable standard		MIL-STD-348B			
Rating	Operating temperature range	-55 °C to +105 °C (95 %RH Max.)	Storage temperature range	-55 °C to +50 °C (95 %RH Max.)	
	Power	-- W	Characteristic impedance	50 Ω(0 to 43.5 GHz)	
	Peculiarity	----	Applicable cable		
SPECIFICATIONS					
ITEM		TEST METHOD		REQUIREMENTS	
CONSTRUCTION				QT	AT
General examination		Visually and by measuring instrument.		According to drawing.	
Marking		Confirmed visually.		X	X
ELECTRICAL CHARACTERISTICS					
Contact resistance		100 mA Max.(DC or 1000 Hz)		Center contact 4 mΩ Max.	X X
				Outer contact 2 mΩ Max.	X X
Insulation resistance		100 V DC.		1000 MΩ Min.	
Withstanding voltage		200 V AC for 60 sec. current leakage 2 mA Max.		No breakdown.	
Voltage standing wave ratio		Frequency 0 to 43.5 GHz.		VSWR 1.3 Max.(0 to 30GHz)	
				VSWR 1.45 Max.(30 to 40GHz)	
				VSWR 1.55 Max.(40 to 43.5GHz)	
Insertion loss		Frequency - to - GHz.		--- dB Max.	
MECHANICAL CHARACTERISTICS					
Contact insertion and extraction forces		φ 0.9195 ⁰ _{-0.0025} by steel gauge.		Insertion force --- N Max.	-- --
				Extraction force 0.4 N Min.	X --
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 6 mΩ Max. Outer contact 4 mΩ Max.	
				2)No damage, crack and looseness of parts.	
Vibration		Frequency 10 to 100 Hz single amplitude 1.5 mm, 59 m/s ² at 5 cycles for 3 directions.		1)No electrical discontinuity of 1 μs.	
				2)No damage, crack and looseness of parts.	
Shock		1960 m/s ² directions of pulse 6 ms at 3 times for 3 directions.			
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 96 % 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.	
Rapid change of temperature		Temperature -55 → - → +105 → - °C Time 30 → 3 → 30 → 3 min. Under 5 cycles.		No damage, crack and looseness of parts.	
Corrosion salt mist		Exposed in 5 % salt water spray for 48 h.		VSWR 1.3 Max.(0 to 30GHz)	
				VSWR 1.45 Max.(30 to 40GHz)	
				VSWR 1.55 Max.(40 to 43.5GHz)	
△	Count	Description of revisions	Designed	Checked	Date
1	2	DIS-D-00018858	NM.TORIUMI	TS.KANEKO	20240528
Remark			Approved	TS.NAKAGAWA	20240326
Note 1) VSWR is evaluated by using Hirose thru PCB.			Checked	TS.KANEKO	20240326
Unless otherwise specified, refer to IEC 60512.			Designed	NM.TORIUMI	20240326
			Drawn	NM.TORIUMI	20240326
Note QT:Qualification Test AT:Assurance Test X:Applicable Test			Drawing No.	ELC-405666-12-00	
HRS	SPECIFICATION SHEET		Part No.	HK-LR-SR2-A(12)	
	HIROSE ELECTRIC CO., LTD.		Code No.	CL0338-0015-0-12	1 1/1