

Applicable standard		SPECIFICATIONS		
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	TF-MMF (7/0.17) NISSEI ELECTRIC
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 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	
Retern loss	Frequency 0 to 10 GHz.	Return loss 20 dB Min.	X —	
	Frequency 10 to 15 GHz.	Return loss 15 dB Min.		
	Frequency 15 to 18 GHz.	Return loss 10 dB Min.		
Insertion loss	Frequency - to - GHz.	--- dB Max.	— —	
MECHANICAL CHARACTERISTICS				
Contact insertion and extraction forces	φ 0.35 ⁰ _{-0.005} by steel gauge.	Insertion force --- N Max.	— —	
		Extraction force 0.2 N Min.	X 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 12 mΩ Max. Outer contact 12 mΩ Max. 2)No damage, crack and looseness of parts.	X —	
Vibration	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. 2)No damage, crack and looseness of parts.	X —	
Shock	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 30 mm/min. and record the strength at which the cable or connector breaks.	49 N Min.	X —	
ENVIRONMENTAL CHARACTERISTICS				
Damp heat	Exposed at -10 to +65 °C, 90 to 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. Return loss 15 dB Min. Return loss 10 dB Min.	X —	
Count	Description of revisions	Designed	Checked	Date
▲				
Remark RoHS COMPLIANT			Approved	KY.SHIMIZU 17.01.25
			Checked	KY.SHIMIZU 17.01.25
			Designed	TY.OZAKI 17.01.25
Unless otherwise specified, refer to IEC 60512.			Drawn	TY.OZAKI 17.01.24
Note QT:Qualification Test AT:Assurance Test X:Applicable Test	Drawing No.	ELC-374158-00-00		
HRS	SPECIFICATION SHEET	Part No.	SMP-LJ-TFMMF-18G	
	HIROSE ELECTRIC CO., LTD.	Code No.	CL338-1007-0-00	▲ 1/1

DRAWING FOR REFERENCE: This is subject to change without notice

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