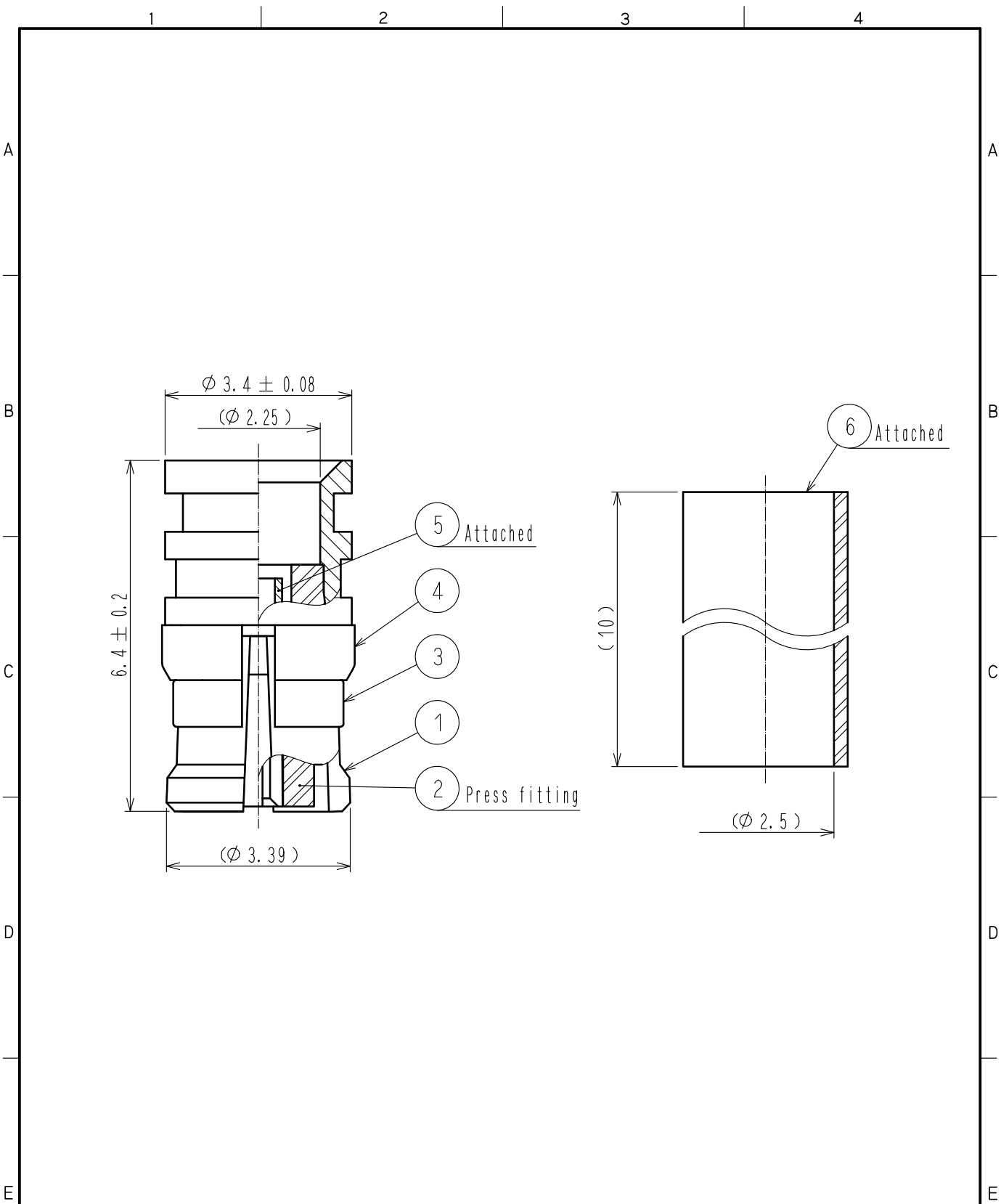


Applicable standard					
Rating	Operating temperature range	-55 °C to +125 °C (95 %RH Max.)	Storage temperature range	-40 °C to +50 °C (95 %RH Max.)	
	Power	-- W	Characteristic impedance	50 Ω (0 to 18 GHz)	
	Peculiarity	----	Applicable cable	0.085 inch semi-flexible cable (Recommend : FCCAF1)	
SPECIFICATIONS					
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 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
Return loss	Frequency 0 to 15 GHz.		20 dB Min.	X	—
	Frequency 15 to 18 GHz.		15 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.	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.		R.L. 20 dB Min.(Frequency 0 to 15 GHz.) R.L. 15 dB Min.(Frequency 15 to 18 GHz.)	X	—
Count	Description of revisions		Designed	Checked	Date
△					
Remark			Approved	KY.SHIMIZU	16.12.09
RoHS COMPLIANT			Checked	TO.KATAYAMA	16.12.09
			Designed	NK.OOSAWA	16.12.09
Unless otherwise specified, refer to IEC 60512.			Drawn	SR.AIHARA	16.12.08
Note	QT:Qualification Test AT:Assurance Test X:Applicable Test		Drawing No.	ELC-364308-00-00	
HRS	SPECIFICATION SHEET		Part No.	SMP-J-219-18G	
	HIROSE ELECTRIC CO., LTD.		Code No.	CL338-1002-0-00	△ 1/1



RoHS COMPLIANT

3	BERYLLIUM COPPER	GOLD PLATING	6	POLYOLEFIN	HEAT SHRINK TUBING(BLACK)
2	PTFE		5	BERYLLIUM COPPER	GOLD PLATING
1	BERYLLIUM COPPER	GOLD PLATING	4	BERYLLIUM COPPER	GOLD PLATING
NO.	MATERIAL	FINISH . REMARKS	NO.	MATERIAL	FINISH . REMARKS

UNITS mm		SCALE 10 : 1	COUNT 	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE
HIROSE ELECTRIC CO., LTD.				APPROVED : KY. SHIMIZU 16.12.09	DRAWING NO. EDC-364308-00-00		
				CHECKED : TO. KATAYAMA 16.12.09	PART NO. SMP-J-219-18G		
				DESIGNED : NK. OOSAWA 16.12.09	CODE NO. CL338-1002-0-00		
				DRAWN : SR. AIHARA 16.12.08	1/1		