2018/01/23 02:30:38(JST) Hayley North
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APPLICABLE STANDARD				
RATING	OPERATING TEMPERATURE RANGE	−55℃ TO +85℃ (95%RH MAX)	STORAGE TEMPERATURE RANGE	−55℃ TO +85℃ (95%RH MAX)
	POWER	— W	CHARACTERISTIC IMPEDANCE	50Ω (0 TO 7 GHz)
	PECULIARITY	—	APPLICABLE CABLE	DTR178 , DFS025

SPECIFICATIONS

ITEM	TEST METHOD	REQUIREMENTS	QT	AT
CONSTRUCTION				
GENERAL EXAMINATION	VISUALLY AND BY MEASURING INSTRUMENT.	ACCORDING TO DRAWING.	X	X
MARKING	CONFIRMED VISUALLY.		—	—
ELECTRIC CHARACTERISTICS				
CONTACT RESISTANCE	100 mA MAX (DC OR 1000 Hz).	CENTER CONTACT 10 mΩ MAX.	X	X
		OUTER CONTACT 3 mΩ MAX.	X	X
INSULATION RESISTANCE	250 V DC.	1000 MΩ MIN.	X	X
VOLTAGE PROOF	250 V AC FOR 1 min.CURRENT LEAKAGE 2mA MAX.	NO FLASHOVER OR BREAKDOWN.	X	X
VOLTAGE STANDING WAVE RATIO	FREQUENCY 0.045 TO 7 GHz	VSWR 1.3 MAX.	X	—
INSERTION LOSS	FREQUENCY — TO — GHz	— dB MAX.	—	—
MECHANICAL CHARACTERISTICS				
CONTACT INSERTION AND EXTRACTION FORCES	MEASURED BY ϕ0.3 $^{0}_{-0.005}$ STEEL GAUGE.	INSERTION FORCE — N MAX.	—	—
		EXTRACTION FORCE 0.2 N MIN.	X	X
INSERTION AND WITHDRAWAL FORCES	MEASURED BY APPLICABLE CONNECTOR.	INSERTION FORCE — N MAX.	—	—
		EXTRACTION FORCE 5 N MIN.	X	X
MECHANICAL OPERATION	200 TIMES INSERTIONS AND EXTRACTIONS.	1) CONTACT RESISTANCE: CENTER CONTACT 15 mΩMAX. OUTER CONTACT 5 mΩMAX. 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 ROBUSTNESS (AGAINST CABLE PULL)	APPLYING A PULL FORCE THE CABLE AXIALLY AT 49 N MAX.	1) NO WITHDRAWAL AND BREAKAGE OF CABLE. 2) NO BREAKAGE OF CLAMP.	X	—
ENVIRONMENTAL CHARACTERISTICS				
DAMP HEAT,CYCLIC	EXPOSED AT +25 TO +65℃, 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.	X	—
RAPID CHANGE OF TEMPERATURE	TEMPERATURE -55 → — → +85 → — ℃ 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.	NO HEAVY CORROSION.	X	—

	COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE
△0					

REMARK
RoHS COMPLIANT

Unless otherwise specified, refer to JIS C 5402.

APPROVED	MH. YAMANE	09. 01. 28
CHECKED	TO. KATAYAMA	09. 01. 27
DESIGNED	TS. KANEKO	09. 01. 27
DRAWN	TS. KANEKO	09. 01. 27

Note QT:Qualification Test AT:Assurance Test X:Applicable Test

DRAWING NO. ELC4-136795-40

HRS

SPECIFICATION SHEET

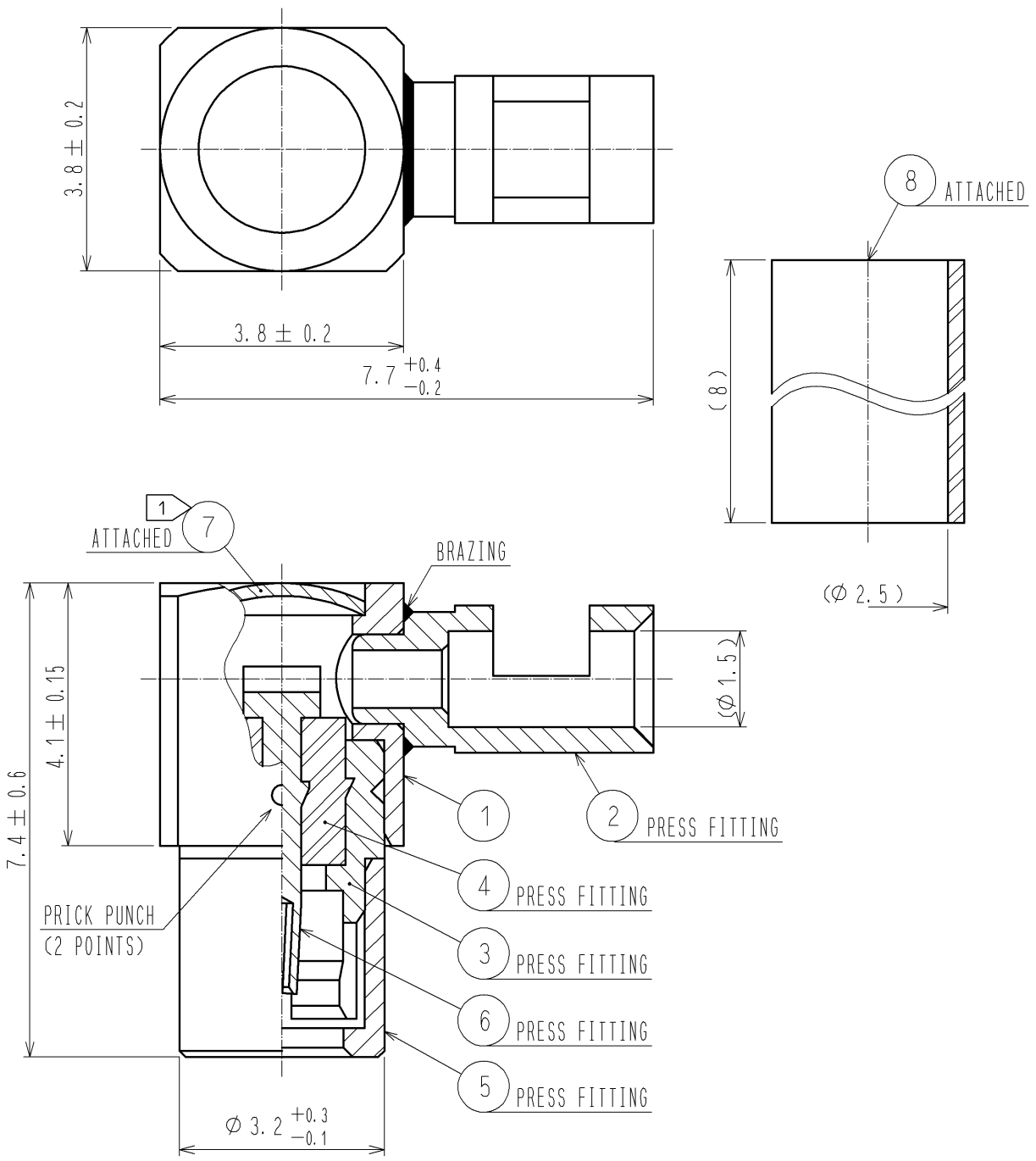
HIROSE ELECTRIC CO., LTD.

PART NO. ML51-LP-DTR178-D(40)

CODE NO. CL337-0054-0-40 △0

FORM HD0011-2-1

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NOTE 1 NO PLATING IS ON THE SIDE OF PART 7.

RoHS COMPLIANT

NO.	MATERIAL	FINISH , REMARKS	NO.	MATERIAL	FINISH , REMARKS
4	PTFE		8	POLYOLEFIN	(GRAY)
3	BERYLLIUM COPPER	GOLD PLATING	7	BRASS	NICKEL PLATING
2	BRASS	GOLD PLATING	6	BERYLLIUM COPPER	GOLD PLATING
1	BRASS	GOLD PLATING	5	STAINLESS STEEL	PASSIVATE

UNITS	SCALE		COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE
mm	10 : 1	△					

HIROSE ELECTRIC CO., LTD.

APPROVED	MH. YAMANE	09. 01. 28
CHECKED	TO. KATAYAMA	09. 01. 27
DESIGNED	TS. KANEKO	09. 01. 27
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DRAWING NO.	EDC4-136795-40
PART NO.	ML51-LP-DTR178-D(40)
CODE NO.	CL337-0054-0-40 △ 1/1