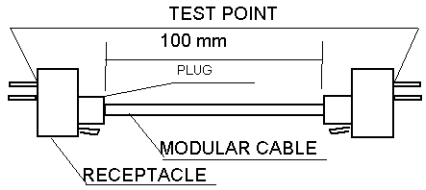
APPLICABLE STANDARD				
RATING	OPERATING TEMPERATURE RANGE	−25 °C TO +80 °C	STORAGE TEMPERATURE RANGE	− °C TO −°C
	VOLTAGE	AC 125 V	CURENT	0.5 A

SPECIFICATIONS

ITEM	TEST METHOD	REQUIREMENTS	QT	AT
CONSTRUCTION				
GENERAL EXAMINATION	VISUALLY AND BY MEASURING INSTRUMENT.	ACCORDING TO DRAWING.	○	○
MARKING	CONFIRMED VISUALLY.		○	○
ELECTRIC CHARACTERISTICS				
CONTACT RESISTANCE	100 mA DC (OR 1000 Hz AC). MEASUREMENT POINTS SHALL BE AS FOLLOWS.  (ONE EXAMPLE CONNECTOR CONFIGURTION IS SHOWN.)	230 mΩ MAX.	○	○
INSULATION RESISTANCE	100 V DC.	100 MΩ MIN.	○	○
VOLTAGE PROOF	500 V AC FOR 1 min.	NO FLASHOVER OR BREAKDOWN.	○	○
MECHANICAL CHARACTERISTICS				
MECHANICAL OPERATION	200 TIMES INSERTIONS AND EXTRACTIONS.	1) CONTACT RESISTANCE: 250 mΩ MAX. 2) NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	○	−
VIBRATION	FREQUENCY 10 TO 55 Hz SINGLE AMPLITUDE 0.75 mm, - m/s^2 AT 2 h, FOR 3 DIRECTIONS.	1) NO ELECTRICAL DISCONTINUITY OF 5μs. 2) CONTACT RESISTANCE: 250 mΩ MAX. 3) NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	○	−
SHOCK	490 m/s^2 DIRECTIONS OF PULSE 11 ms AT 3 TIMES FOR 3 DIRECTIONS.		○	−
ENVIRONMENTAL CHARACTERISTICS				
DAMP HEAT,CYCLIC	EXPOSED AT +40 °C, 90 TO 95 %, 500 h.	1) CONTACT RESISTANCE: 250 mΩ MAX. 2) INSULATION RESISTANCE: 1 MΩ MIN. (AT HIGH HUMIDITY) 10 MΩ MIN. (AT DRY) 3) NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	○	−
RAPID CHANGE OF TEMPERATURE	TEMPERATURE −55±3 → 5 TO 35 → 85±2 → 5 TO 35 °C TIME 30 TO 35 → 5 MAX → 30 TO 35 → 5 min MAX UNDER 5 CYCLES.	1) CONTACT RESISTANCE: 250 mΩ MAX. 2) INSULATION RESISTANCE: 100 MΩ MIN. 3) NO DAMAGE, CRACK AND LOOSENESS OF PART	○	−
CORROSION SALT MIST	EXPOSED IN 5 % SALT WATER SPRAY FOR 48 h.	1) CONTACT RESISTANCE: 250 mΩ MAX. 2) NO HEAVY CORROSION.	○	−
RESISTANCE TO SOLDERING IRON HEAT	SOLDERRING IRON TEMPERATURE, 350 ± 10℃ SOLDERRING TEMPERATURE 4 s MAX.			

	COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE
A					

REMARK

Unless otherwise specified, refer to JIS C 5402.

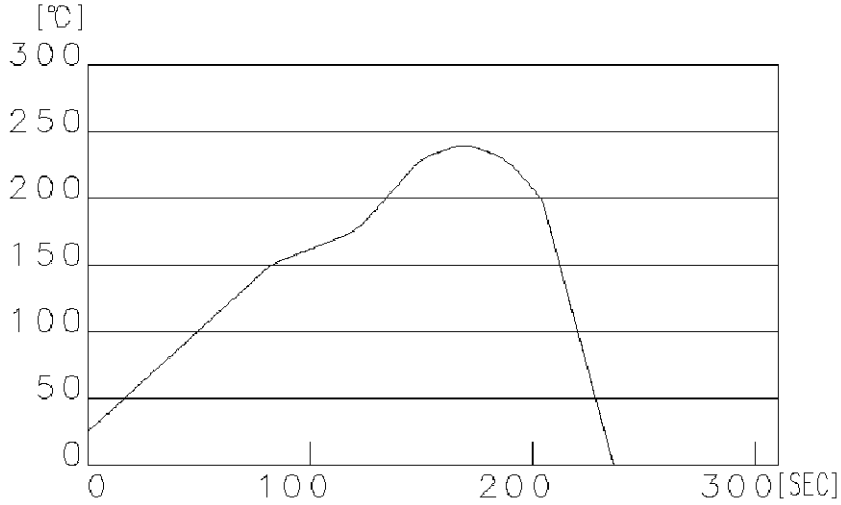
APPROVED	HO.MIWA	06.01.17
CHECKED	YH.ENAMI	06.01.17
DESIGNED	TU.TANIGUCHI	06.01.17
DRAWN	MT.ITANO	06.01.17

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

DRAWING NO. ELC4-122138-01

HRS	SPECIFICATION SHEET	PART NO.	TM18R-T0-88(50)	
	HIROSE ELECTRIC CO., LTD.	CODE NO.	CL222-2883-9-50	A 1/2

REFLOW CONDITION



TEMPERATURE RANGE	TIME
150 TO 180	60 SEC
200 MIN	55 SEC
220MIN	40 SEC
230MIN	30 SEC
235 MIN	20 SEC
240	MOMENT

	COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE
A					

REMARK

Unless otherwise specified, refer to JIS C 5402.

APPROVED	HO.MIWA	06.01.17
CHECKED	YH.ENAMI	06.01.17
DESIGNED	TU.TANIGUCHI	06.01.17
DRAWN	MT.ITANO	06.01.17

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

DRAWING NO. ELC4-122138-01

HRS

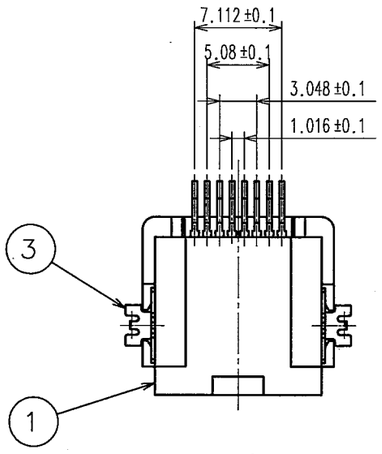
SPECIFICATION SHEET

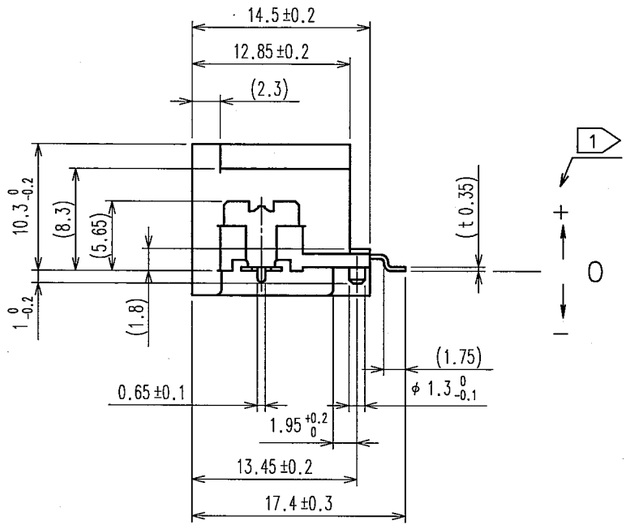
HIROSE ELECTRIC CO., LTD.

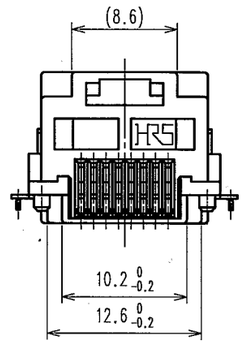
PART NO. TM18R-TO-88(50)

CODE NO. CL222-2883-9-50 A 2/2

	COUNT	DESCRIPTION OF REVISIONS	BY	CHKD	DATE		COUNT	DESCRIPTION OF REVISIONS	BY	CHKD	DATE
△					. .	△					. .
△					. .	△					. .
△					. .	△					. .

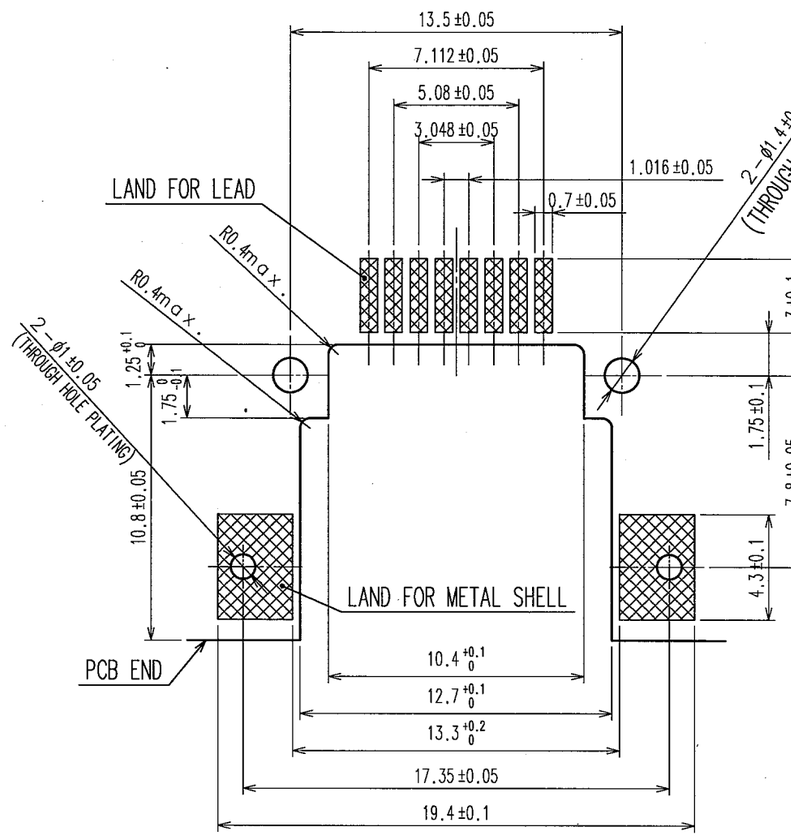




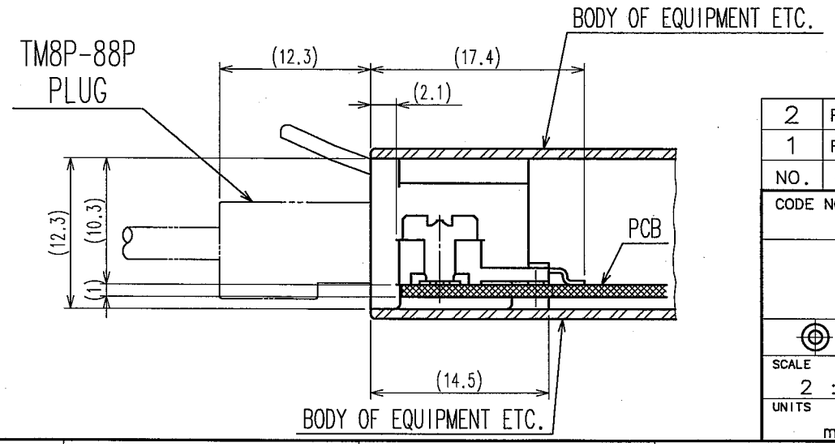


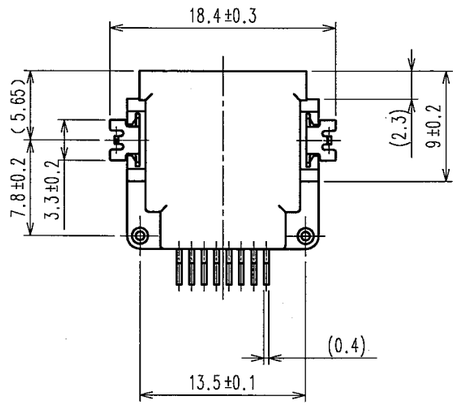
RECOMMENDED PCB PATTERN, MOUNTING SIDE(4:1)

t=1



SET MOUNTED EXAMPLE





NOTE 1 THE CO-PLANARITY OF LEADS AND METAL SHELLS SHALL BE $0^{+0.05}_{-0.1}$.

NO.	MATERIAL	FINISH, REMARKS	NO.	MATERIAL	FINISH, REMARKS
2	PHOSPHOR BRONZE	SELECTIVE GOLD PLATING 1.27μm			
1	PPS	(BLACK) UL94V-0	3	COPPER ALLOY	TIN PLATING 1μm

CODE NO.(OLD)	DRAWN	DESIGNED	CHECKED	APPROVED	RELEASED
	M. Itano 06·1·17	F. Tonigachi 06·1·17	Y. Enami 06·1·17	C. Miwa 06·01·17	. .

SCALE	DRAWING NO.	PART NO.
2 : 1	EDC3-122138-01	TM18R-TO-88(50)
UNITS: mm	HRS HIROSE ELECTRIC CO., LTD	CODE NO. CL222-2883-9-50 1/1

TO
Q1

FORM NO.2881