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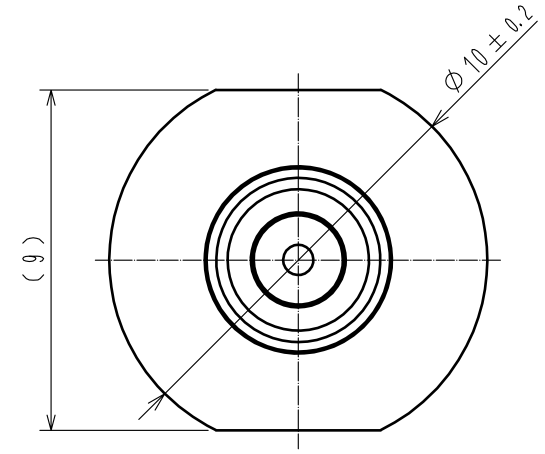
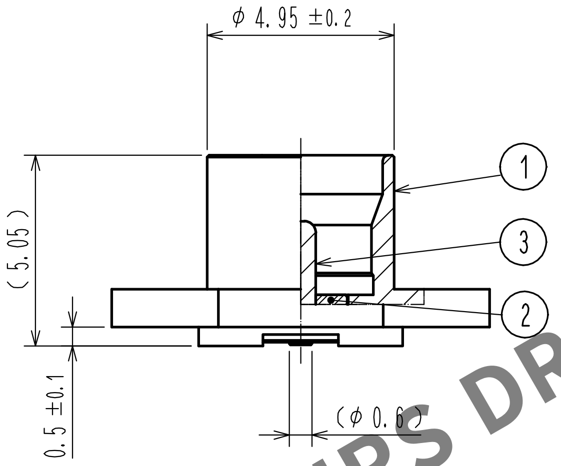
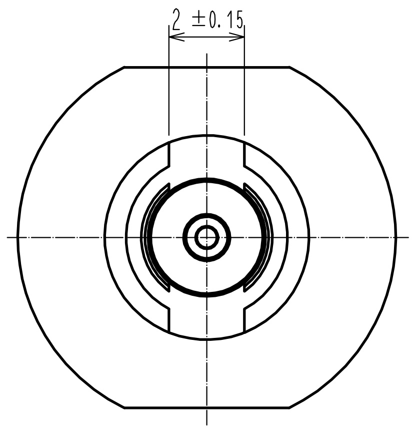
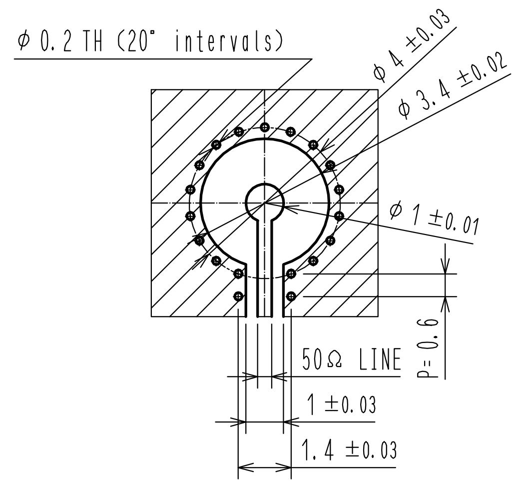
In case of consideration for using Automotive equipment / device which demand high reliability, kindly contact our sales window correspondents.

HRS DRAWING FOR REFERENCE

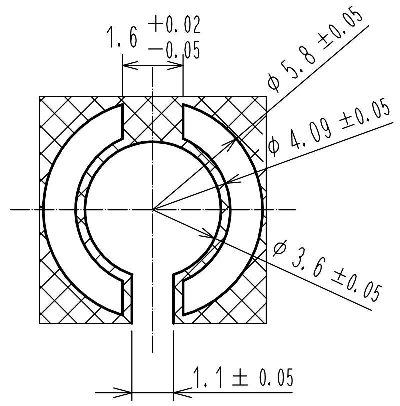




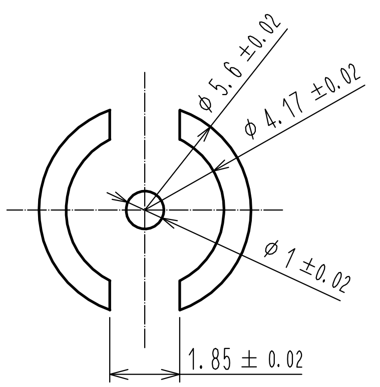




RECOMMENDED PCB LAYOUT

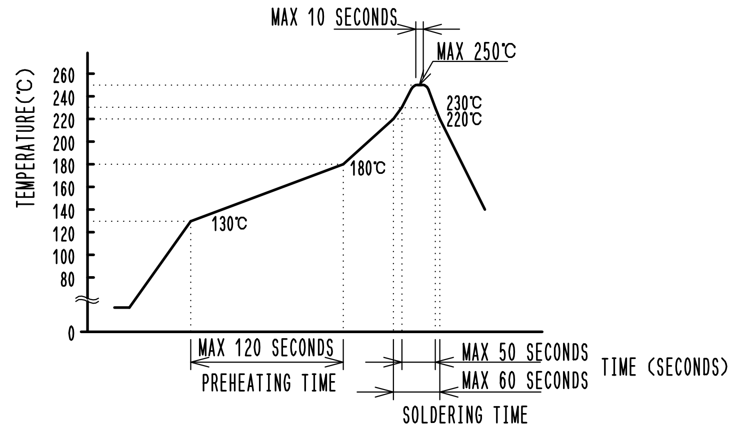


RECOMMENDED RESIST LAYOUT



RECOMMENDED METAL MASK DIMENSIONS
METAL MASK THICKNESS:0.1mm

REFLOW TEMPERATURE PROFILE USING
LEAD-FREE SOLDER PASTE (REFERENCE)



1) Reflow time
   Reflow method : IR reflow
   Number of reflow cycles : 2 cycles MAX.
   Duration above 220 ℃, 60 sec. MAX.
   Duration above 230 ℃, 50 sec. MAX.
   (Peak temperature : 250℃ 10 sec. MAX.)
2) Pre-heat time
   Pre-heat temperature(MIN) : 130 ℃
   Pre-heat temperature(MAX) : 180 ℃
   Pre-heat time: 120 sec. MAX.

This temperature profile is per the conditions shown above.
Additional factors, such as solder paste type,
PCB size and other mounted components could affect the profile, therefore,
A thorough evaluation of mounting condition is required prior to production.
temperature is measured at contact lead.

NO.	MATERIAL	FINISH , REMARKS	NO.	MATERIAL	FINISH , REMARKS
2	PTFE				
1	BRASS	GOLD PLATING	3	BRASS	GOLD PLATING

UNITS		SCALE		COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE
mm		5 : 1	0					

HIROSE ELECTRIC CO., LTD.	APPROVED : TS. NAKAGAWA	20250529	DRAWING NO. EDC-398283-01-00
	CHECKED : TS. NAKAGAWA	20250529	PART NO. PO(M2)-PR(LD)-SMT(01)
	DESIGNED : TS. KANEKO	20250528	CODE NO. CL0338-1505-0-01
	DRAWN : TS. KANEKO	20250528	0 1/2

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【PRECAUTION FOR HANDLING】

About connector mounting

1. The allowable values below are general values when one set is mounted on our evaluation board.
   The following values may not be satisfied depending on the board material, layer composition,
   mounting pattern, or mounting conditions.
   Therefore, it is recommended that the customer verify the data in advance.
   Also, we recommend that the customer verify the board before mounting multiple units on the same board.

2. When inserting or withdrawing the PO(M2)-A-JJ-1500 into or from the PO(M2)-PR(LD)-SMT, align the mating axis and insert or withdraw it straight.
   The horizontal tolerance of center axis misalignment in the mating condition of three products,
   PO(M2)-PR(LD)-SMT, PO(M2)-A-JJ-1500, and PO(M2)-PR(SB)-SMT, is within 0.4mm.
   Please be careful not to apply further axis misalignment in the above condition.
   If more than the specified axis misalignment is applied, the connector may be deformed or damaged.

3. When PO(M2)-PR(LD)-SMT is mated with PO(M2)-A-JJ-1500, the allowable angle is within 3° (reference value).

4. The connector insertion force up to the specified board-to-board dimensions is 20N or less per connector (PO(M2)-PR(SB)-SMT).
   When using multiple connectors, please take the load into consideration.

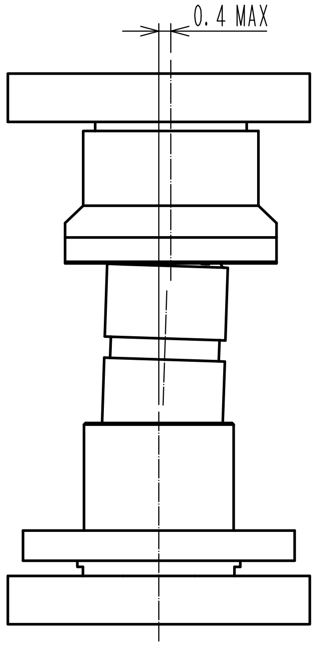
After connector mating

5. The dimension between boards after connector mating should be 15^{+1}_{0} mm.

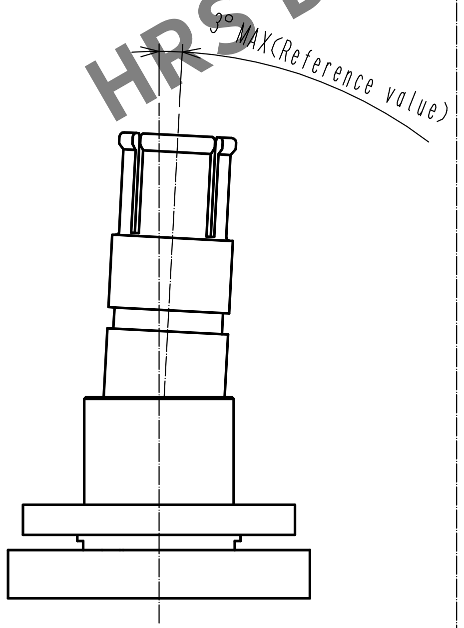
6. Since there is no locking mechanism for PO(M2)-PR(SB)-SMT,
   please fasten between boards in the customer's enclosure.

HRS DRAWING FOR REFERENCE

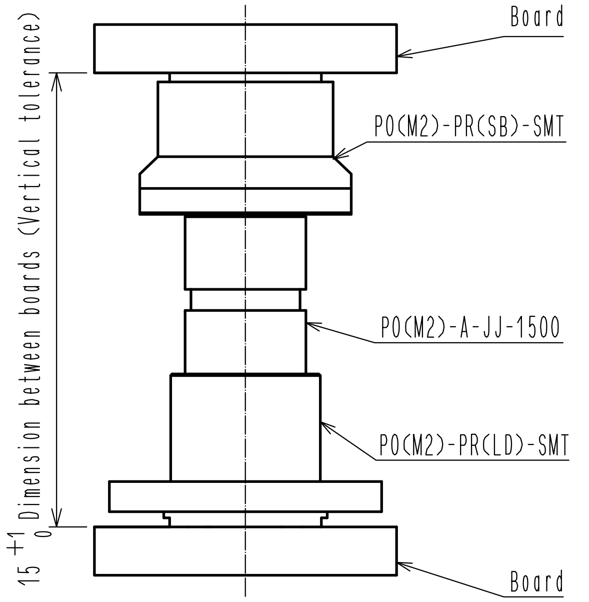
2 【HORIZONTAL TOLERANCE】



3 【ALLOWABLE ANGLE】



5 【MATING CONDITION】



DRAWING NO.	EDC-398283-01-00
PART NO.	PO(M2)-PR(LD)-SMT(01)
CODE NO.	CL0338-1505-0-01

HRS

2/2

FORM HC0011-5-8