APPLICABLE STANDARD				
Rating	Operating Temperature Range	-55 °C to 85 °C (1)	Storage Temperature Range	-10 °C to 60 °C (2)
	Voltage	Signal Contact : 50 V AC △1 Power Contact : 200 V AC	Storage Humidity Range	Relative humidity 85% max (Not dewed)
	Current	Signal Contact : 0.5 A Power Contact : 3.0A	Operating Humidity Range	

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 1000Hz)	Signal Contact : 70mΩ MAX. Power Contact : 20mΩ MAX. △1	×	—
Insulation Resistance	Signal Contact : 100 V DC. Power Contact : 250 V DC △1	Signal Contact : 100 MΩMIN. Power Contact : 1000 MΩMIN. △1	×	—
Voltage Proof	Signal Contact : 150 V AC for 1 min.	No flashover or breakdown.	×	×
	Power Contact : 600 V AC for 1 min. △1		×	—
MECHANICAL CHARACTERISTICS				
Insertion and Withdrawal Forces	Measured by applicable connector.	Insertion Force: 18 N MAX. △1 Withdrawal Force: 2 N MIN.	×	—
Mechanical Operation	100 times insertions and extractions.	① Contact Resistance: Signal Contact : 80mΩ MAX. △1 Power Contact : 30mΩ MAX. ② No damage, crack and looseness of parts.	×	—
Vibration	Frequency 10 to 55 to 10Hz, approx 5min Single amplitude : 0.75 mm, 10 cycles for 3 axial directions.	① No electrical discontinuity of 1 μs. ② No damage, crack and looseness of parts.	×	—
Shock	490 m/s^2 , duration of pulse 11 ms at 3 times for 3 both axial directions.		×	—
ENVIRONMENTAL CHARACTERISTICS				
Damp Heat (Steady state)	Exposed at 40±2 °C, 90 ～ 95 %, 96 h.	① Contact Resistance: Signal Contact : 80mΩ MAX. △1 Power Contact : 30mΩ MAX. ② Insulation Resistance: Signal Contact : 100 MΩ MIN. △1 Power Contact : 1000 MΩ MIN. ③ No damage, crack and looseness of parts.	×	—
Rapid Change of Temperature	Temperature -55 → +85 °C Time 30 → 30 min. under 5 cycles. (Relocation time to chamber : within 2～3 MIN)		×	—
Cold	Exposed at -55℃, 96 h	① Contact Resistance: Signal Contact : 80mΩ MAX. △1 Power Contact : 30mΩ MAX. ② No damage, crack and looseness of parts.	×	—
Dry Heat	Exposed at 85℃, 96 h		×	—
Sulfur Dioxide	Exposed at 25±2℃, 75±5%RH, 25 PPM for 96 h. (Test standard: IEC 68) △1	① No defect such as corrosion which impairs the function of connector. ② Contact Resistance: Signal Contact : 80mΩ MAX. △1 Power Contact : 30mΩ MAX.	×	—
Resistance to Soldering Heat	1)Reflow soldering : Peak TMP : 260℃MAX Reflow TMP: 220℃MIN for 60sec 2) Soldering irons : 360℃ MAX. for 5 sec.	No deformation of case of excessive looseness of the terminal.	×	—
Solderability	Soldered at solder temperature 240±3℃ for immersion duration, 3 sec.	A new uniform coating of solder shall cover a minimum of 95 % of the surface being immersed.	×	—

	COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE
△1	13	DIS-F-00000643	TS. OONO	KN. SHIBUYA	15. 09. 09

REMARKS (1) Include temperature rise caused by current-carrying.
(2) "STORAGE" means a long-term storage state for the unused product before assembly to PCB.

Unless otherwise specified, refer to IEC 60512. △1

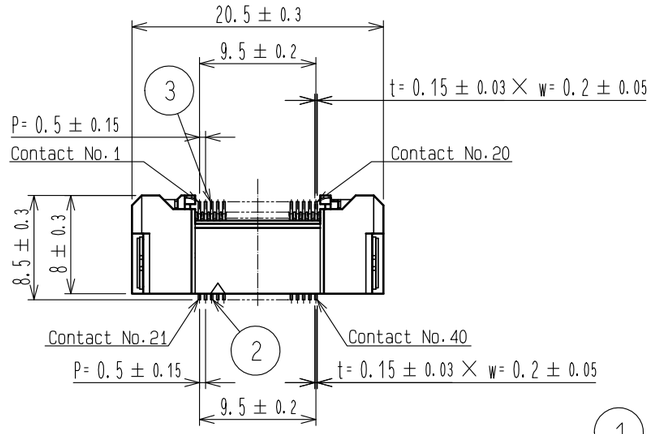
APPROVED	HS. OKAWA	14. 09. 02
CHECKED	KN. SHIBUYA	14. 09. 02
DESIGNED	TS. OONO	14. 09. 02
DRAWN	TS. OONO	14. 09. 02

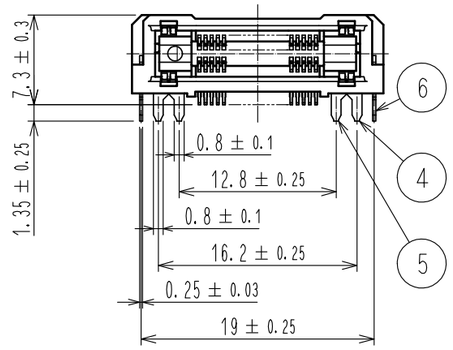
Note QT:Qualification Test AT:Assurance Test X:Applicable Test

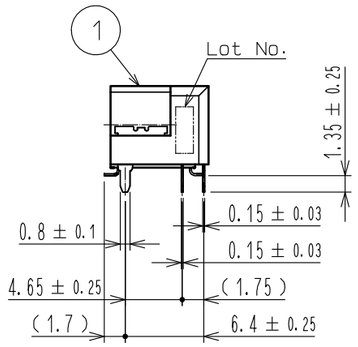
DRAWING NO. ELC-353566-00-00

HRS	SPECIFICATION SHEET	PART NO.	FX23-40S-0. 5SH	
	HIROSE ELECTRIC CO., LTD.	CODE NO.	CL573-3402-1-00 △1	1/1

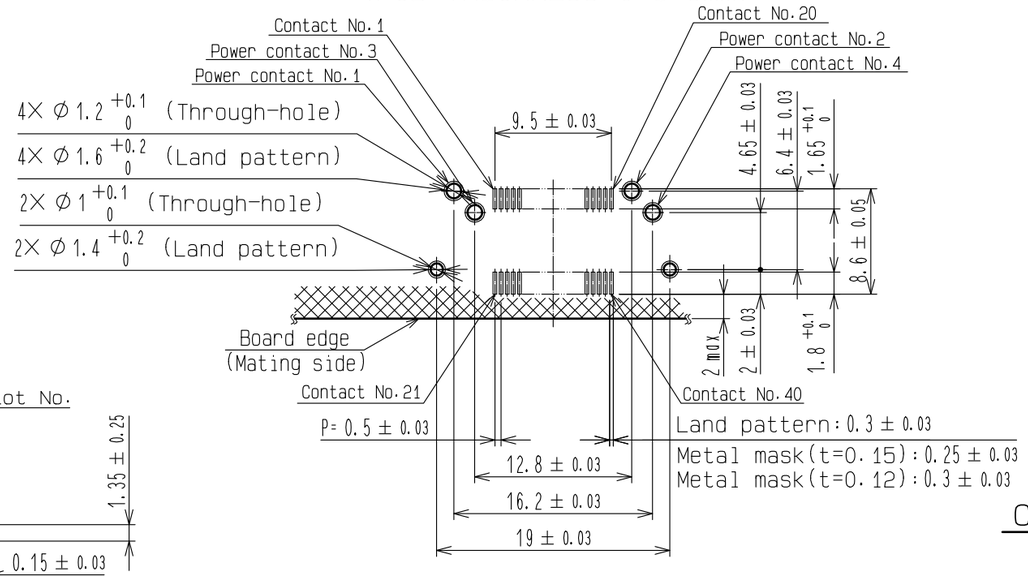
FORM HD0011-2-1



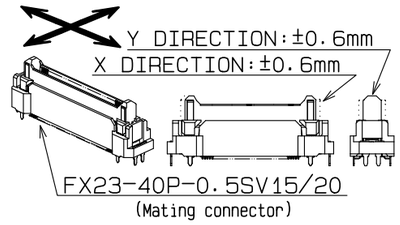




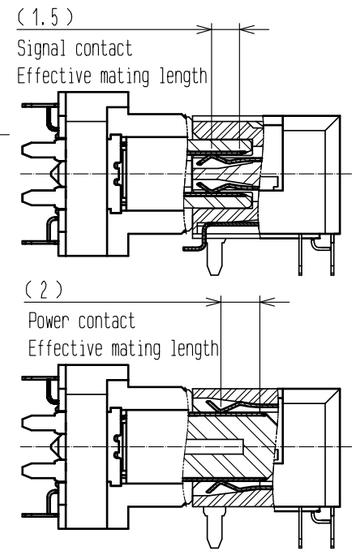
RECOMMENDED LAND PATTERN DIMENSION OF PCB
(PCB THICKNESS:t=1.6mm)



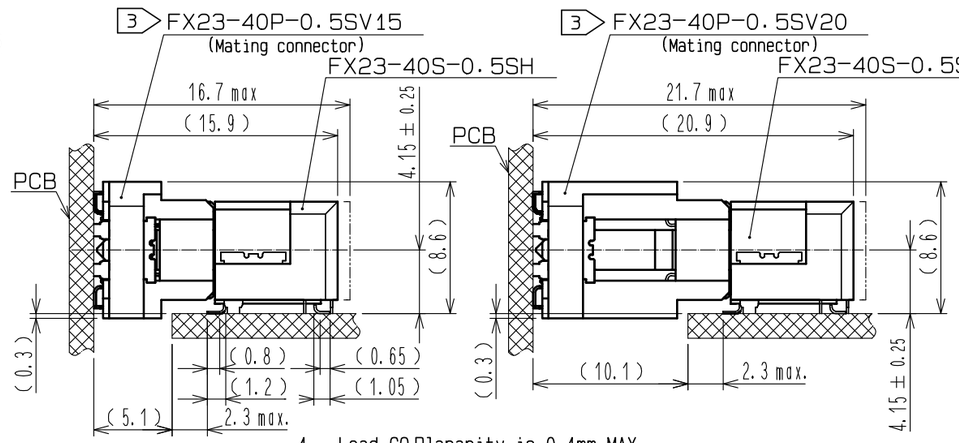
3 FLOATING RANGE



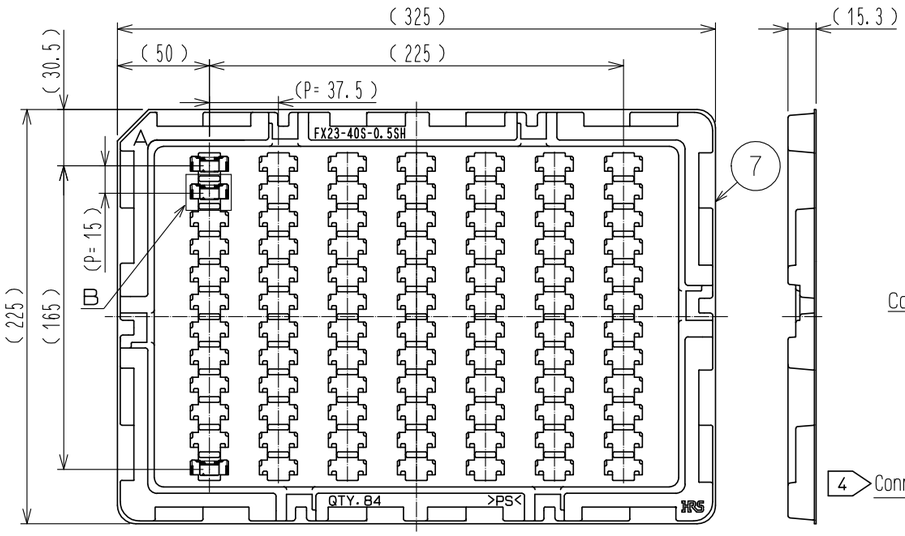
CROSS SECTION OF MATING
(No scale)

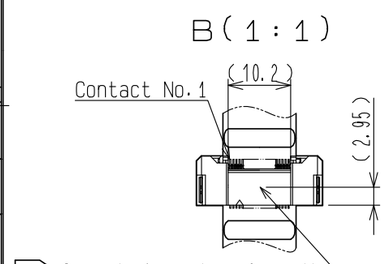


PCB DISTANCE(No scale)



2 DRAWING FOR PACKING(No scale)





1 Lead CO-Planarity is 0.1mm MAX.
2 This is packaged in tray.(84pcs/tray)
3 Floating range of this connector is ±0.6mm MAX.
4 It shows the vacuum pickup area.
5 Blemish and hit mark can be occured through out the manufacturing process which doesn't affect quality level.
6 The dimensions in parentheses are for references.

NO.	MATERIAL	FINISH , REMARKS
2, 3	COPPER ALLOY	CONTACT AREA:GOLD 0.1μm
		LEAD AREA:GOLD 0.03μm
		UNDER PLATING:NICKEL 1.3μm
1	LCP	BLACK UL94V-0

NO.	MATERIAL	FINISH , REMARKS
7	POLYSTYRENE	(TRAY)
6	BRASS	LEAD AREA:TIN-PLATING 3μm
		UNDER PLATING:NICKEL 1μm
4, 5	COPPER ALLOY	CONTACT AREA:GOLD 0.1μm
		LEAD AREA:TIN-PLATING 1μm
		UNDER PLATING:NICKEL 1.3μm

UNITS	SCALE	COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE
mm	2 : 1	0				

HIROSE ELECTRIC CO., LTD.

APPROVED	HS.OKAWA	15.05.29	DRAWING NO. EDC-353566-00-00
CHECKED	KN.SHIBUYA	15.05.28	PART NO. FX23-40S-0.5SH
DESIGNED	TS.OONO	15.05.28	CODE NO. CL573-3402-1-00
DRAWN	TS.OONO	15.05.28	0 1/1