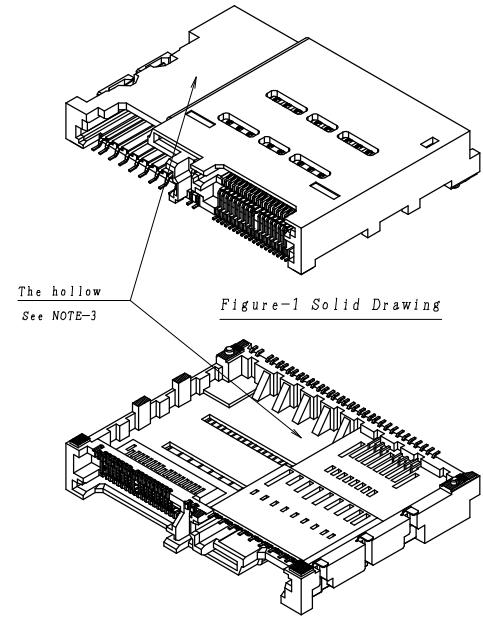
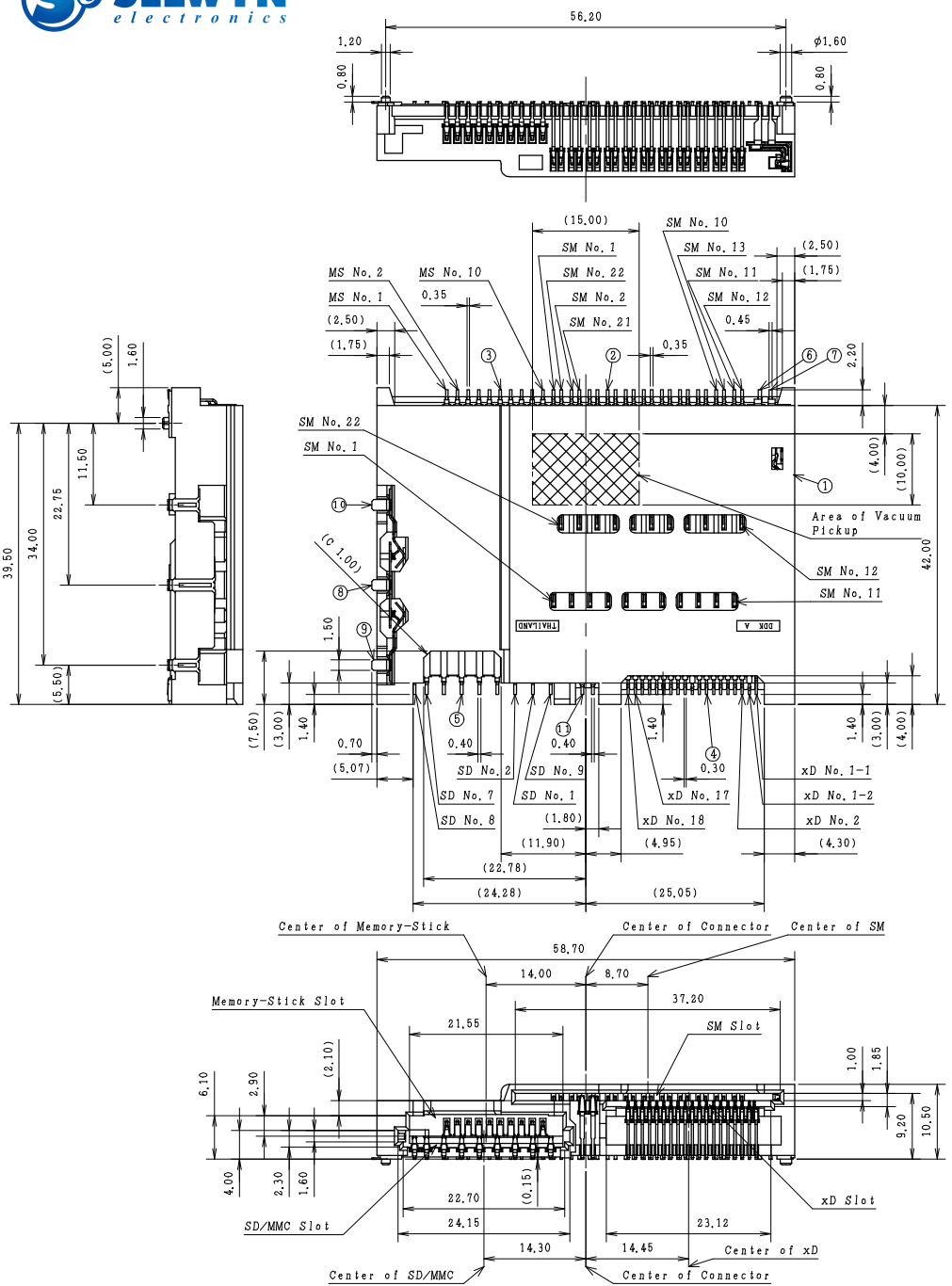
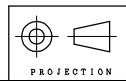


REV.	DATE	ZONE	DESCRIPTION	DESIGNED	CHECKED	APPROVED
A	Sep. 16, 2004		Initial issued			



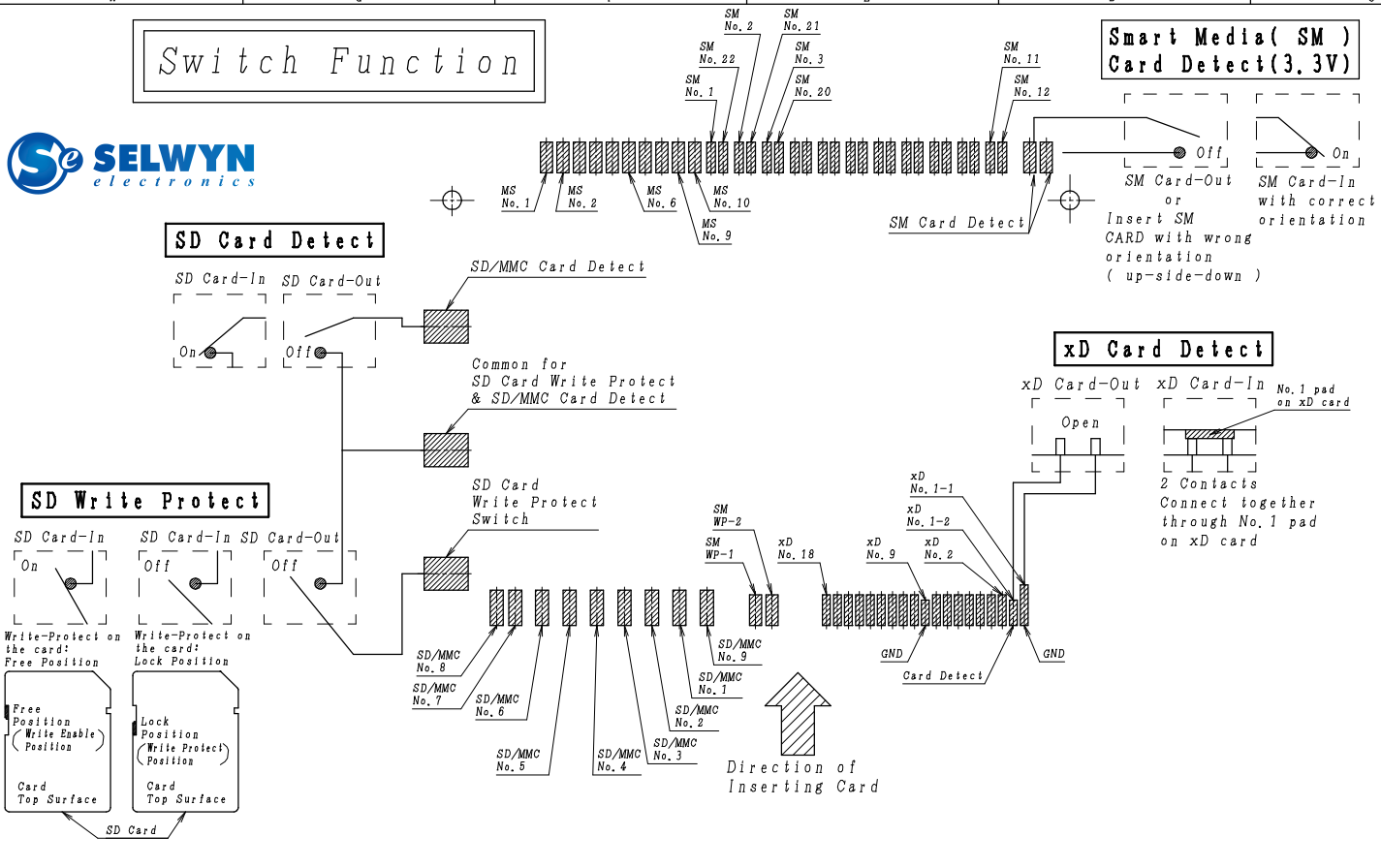
QTY.	ITEM	PART NAME	MATERIAL	FINISH	OTHER
2	11	SM WRITE-PROTECT Switch	Copper Alloy		See TABLE-1
1	10	SD/MMC Detect Switch	Copper Alloy		See TABLE-1
1	9	SD WRITE-PROTECT Switch	Copper Alloy		See TABLE-1
1	8	SD Common Switch	Copper Alloy		See TABLE-1
1	7	SM(3.3V) Detect Switch(2)	Copper Alloy		See TABLE-1
1	6	SM(3.3V) Detect Switch(1)	Copper Alloy		See TABLE-1
9	5	SD/MMC Contact	Copper Alloy		See TABLE-1
19	4	xD Contact	Copper Alloy		See TABLE-1
10	3	MEMORY STCK Contact	Copper Alloy		See TABLE-1
22	2	SM Contact	Copper Alloy		See TABLE-1
1	1	Housing	High Temperature Plastic	Color: Black, UL94V-0 Rated	



APPROVED	DESIGNED	GENERAL TOLERANCE	TITLE
M. Hida	K. Takei	DIMENSIONS	(5-1p-1 Combo Connector, SMT Type Smart Media/Memory-Stick/xD/SD/MMC)
Sep. 16, 2004	Sep. 16, 2004	±0.40	MCH-HNS5A-A***
		SCALE	DRAWING NUMBER
H. Takahashi	K. Takei	2 / 1	C20205-1(1/3)
Sep. 16, 2004	Sep. 16, 2004	UNIT	(For General)
		mm	A



Switch Function



**Smart Media (SM)
Card Detect (3.3V)**

SD Card Detect

SD Write Protect

xD Card Detect

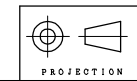
- Part Numbering Code**
- MCH-HNS5A-A(D1)***
- | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|
- Series Number
 - Combination Connector
 - Eject Unit
 - Soldering Type
 - Plating
 - Existence of Switch
 - Connector Style
 - Deviation
 - Type of Contact Tail Area
- MCH: Memory Card Combo Connector Series
 H: SSPDC/Memory-Stick/xD/SD/MMC
 N: Without Eject Mechanism
 A: With 3.3V Card Detect Switch, Write Protect Switch (For SM), Card Detect Switch and Write Protect Switch (SD)
 A: A Type
 No designation: Tin-Lead Plating
 -FA: Lead-Free Plating
 -PG: Gold Flash Plating

TABLE-1 (Contact and Locking Tab Plating Specification)

Product Name	Part Name	Mating Area	Termination Area
MCH-HNS5A-A(D1)	Contact	Gold (0.2 μm Minimum) over Nickel under plating	Tin-Lead over Nickel under plating
	Switch Contact	Gold Flash over Nickel under plating	Tin-Lead and Gold Flash over Nickel plating
MCH-HNS5A-A(D1)-FA	Contact	Gold (0.2 μm Minimum) over Nickel under plating	Lead-Free over Nickel under plating
	Switch Contact	Gold Flash over Nickel under plating	Lead-Free over Nickel under plating
MCH-HNS5A-A(D1)-PG	Contact	Gold (0.2 μm Minimum) over Nickel under plating	Gold Flash over Nickel under plating
	Switch Contact	Gold Flash over Nickel under plating	Gold Flash over Nickel under plating

NOTE

- Co-planarity must be controlled 0.10mm maximum.
- Connector weight from 3D data approximately 20 grams.
- The hollow on housing are design for balancing material flow. Then, it is our optional mold design. This hollow design change is available for supplier decision.



QTY.	ITEM	PART NAME	MATERIAL	FINISH, OTHER
APPROVED	DESIGNED	GENERAL TOLERANCE		TITLE 5-in-1 Combo Connector, SMT Type Smart Media/Memory-Stick/xD/SD/MMC MCH-HNS5A-A***
M. Hida	K. Takei	DIMENSIONS	ANGLE	
SEP 16, 2004	SEP 16, 2004	±0.40	±3°	CHECKED
H. Takahashi	K. Takei	SCALE	UNIT	DRAWING NUMBER
SEP 16, 2004	SEP 16, 2004	∞	mm	C20205-1(3/3)
				REV.
				A