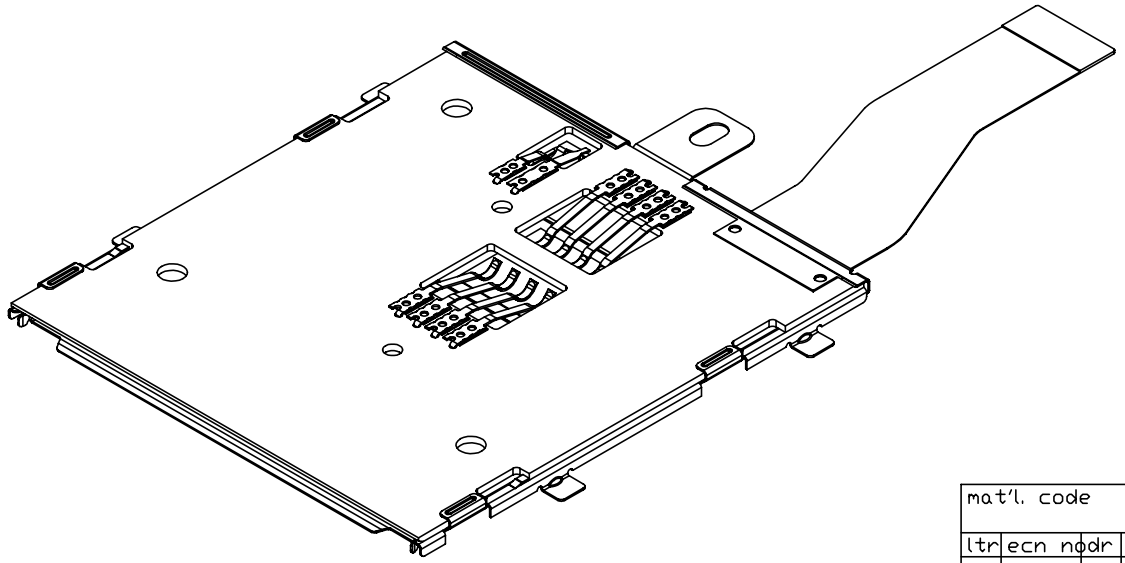
PRODUCT NO.	FPC	PACKAGING	COMPONENTS	LEAD FREE	PCB COLOR
10010556-002LF	10010559-002LF	10017475-02-002	ELEC. PARTS	YES	BLUE
10010556-003LF	10105325-001	10017475-02-009	N/A	YES	BLACK
10010556-004LF	10056226-002LF(FFC)	10017475-02-004	N/A	YES	BLUE
10010556-006LF	10058983-001LF	10017475-02-003	N/A	YES	BLACK
10010556-005LF	10056226-003LF(FFC)	10017475-02-004	N/A	YES	BLUE
10010556-007LF	10081578-001	10017475-02-006	N/A	YES	BLACK
10010556-008LF	10056226-004LF(FFC)	10017475-02-003	N/A	YES	BLUE
10010556-009LF	10083983-001(FFC)	10017475-02-008	N/A	YES	BLUE
10010556-010LF	10056226-005LF(FFC)	340391-202	N/A	YES	GREEN
10010556-011LF	10087561-001	10017475-02-007	N/A	YES	BLUE
10010556-012LF	10087561-002	10017475-02-007	N/A	YES	BLUE
10010556-013LF	10088568-001	10017475-02-006	N/A	YES	BLACK
10010556-014LF	10087561-004	10017475-02-004	N/A	YES	BLUE
10010556-015LF	10099689-001(FFC)	10017475-02-006	N/A	YES	BLACK
10010556-016LF	10056226-006LF(FFC)	340391-202	N/A	YES	GREEN
10010556-017LF	10056226-007LF(FFC)	340391-202	N/A	YES	GREEN
10010556-018LF	10107293-001(FFC)	10017475-02-004	N/A	YES	GREEN
10010556-019LF	10087561-005(FFC)	10017475-02-010	N/A	YES	GREEN

NOTES :
1. SMART CARD READER FOR LOWER PROFILE HEIGHT OF 3.0 mm.
2. TOTAL CIRCUIT RESISTANCE PER ONE LOOP SHALL NOT EXCEED 100 MILLIOHMS.
3. MATERIALS :
   CONTACTS : COPPER ALLOY, GOLD OVER NICKEL ON CONTACT AREA.
   TOP PCB : FR4.
   COVER : STAINLESS STEEL.
4. ENVIRONMENT :
   STORAGE TEMPERATURE : FROM −40°C TO 100°C.
   OPERATION TEMPERATURE : FROM −40°C TO 85°C.



ltr	ecn no	dr	date
R	N08-0136	SH	07/07/08
S	N08-0212	SH	10/06/08
T	N09-0224	SH	07/15/09
U	N09-0306	SH	10/13/09
V	N10-0058	SH	03/03/10
W	ELX-N-012726	ZK	09/30/12

mat'l. code
surface ISO 1302 ✓
tolerance ISO 406 ISO 1101
projection
product family: 95
tolerances unless otherwise specified
angles 0±2°
linear 0.X±0.5, 0.XX±0.30, 0.XXX±0.10
MM
scale NA
dr A.JUANG 06/07/02
engr A.JUANG 06/07/02
chr A.JUANG 06/07/02
appd JENN.TSAO 06/07/02
title: SMART CARD READER ASSEMBLY
dwg no 10010556
sheet 1 of 21
size A3
type Product Customer Drawing
sheet index
revision sheet

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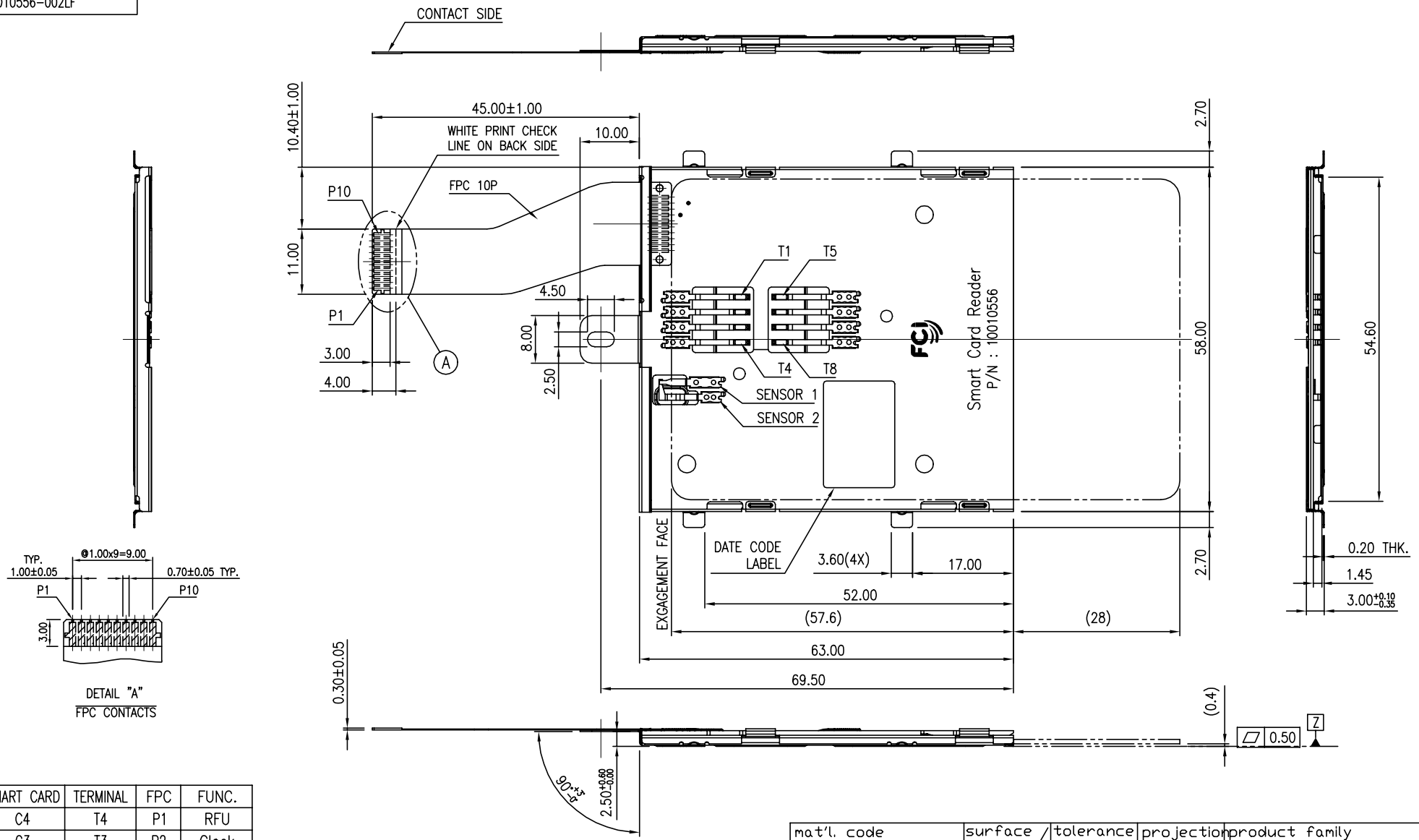
PRODUCT NO.
10010556-002LF



SMART CARD	TERMINAL	FPC	FUNC.
C4	T4	P1	RFU
C3	T3	P2	Clock
C2	T2	P3	Reset
C1	T1	P4	Vcc
SENSOR 1	SENSOR 1	P5	SENSOR
SENSOR 2	SENSOR 2	P6	SENSOR
C5	T5	P7	Gnd
C6	T6	P8	Vpp
C7	T7	P9	I/O
C8	T8	P10	RFU

mat'l. code | surface ISO 1302 | tolerance ISO 406 ISO 1101 | projection | product family 95

ltr | ecn | nodr | date: W

tolerances unless otherwise specified

angles 0±2° | linear 0.X±0.5, 0.XX±0.30, 0.XXX±0.10 | MM | scale NA

dr	A.JUANG	06/07/02
engr	A.JUANG	06/07/02
chr	A.JUANG	06/07/02
appd	JENN.TSAO	06/07/02

sheet index | revision sheet

title: SMART CARD READER ASSEMBLY

dwg no 10010556 | sheet 2 of 21 | size A3

type Product Customer Drawing

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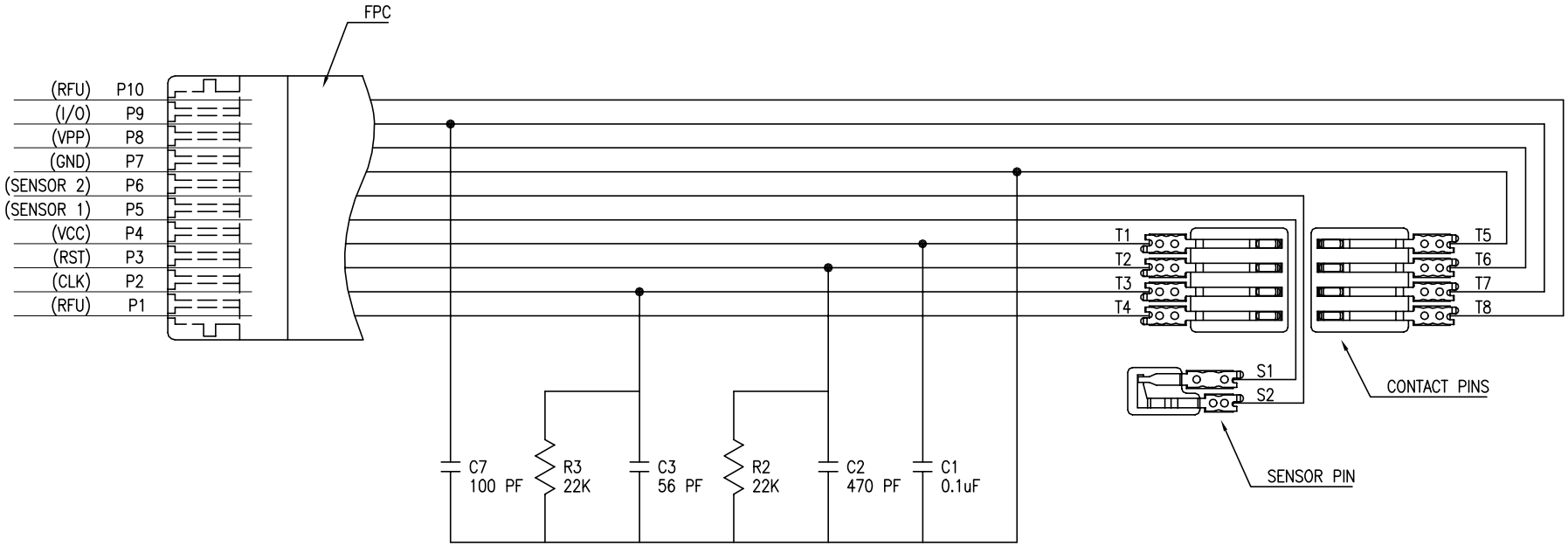
form A3

PRODUCT NO.
10010556-002LF



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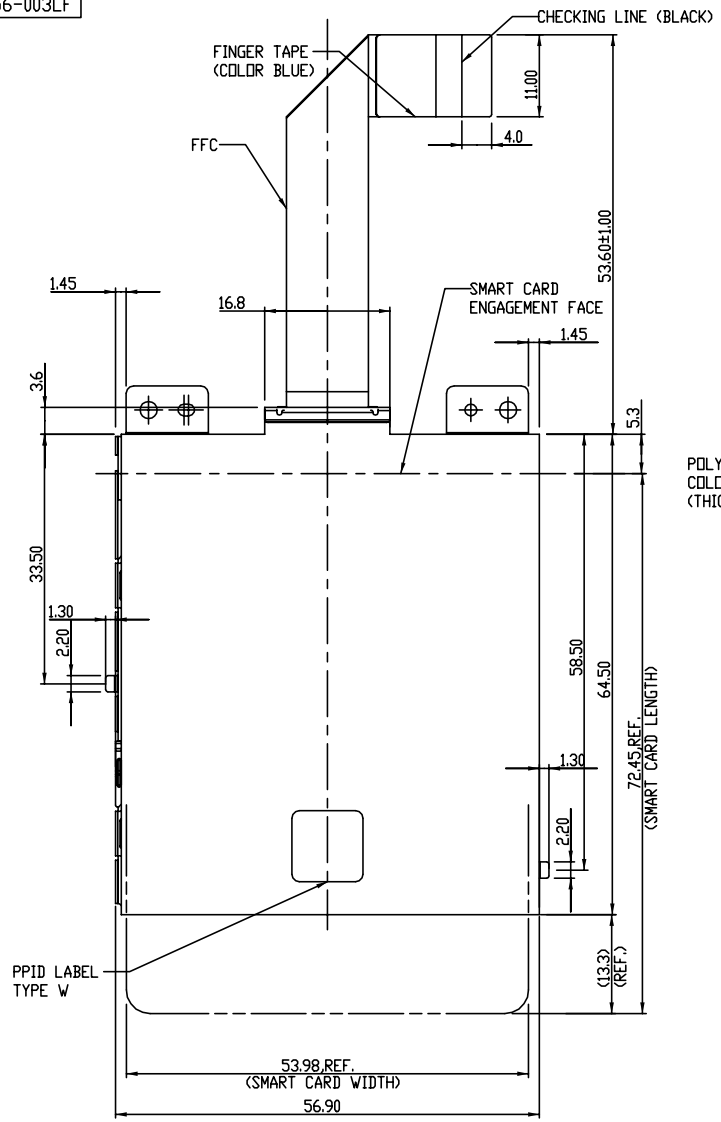
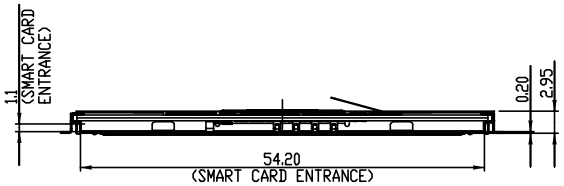
mat'l. code				surface ISO 1302	tolerance ISO 406 ISO 1101	projection	product family 95
ltr	ecn	nodr	date	tolerances unless otherwise specified			title
W				angles 0±2°	linear 0.X±0.5 / 0.XX±0.30 / 0.XXX±0.10	MM	SMART CARD READER ASSEMBLY
						scale NA	
				dr A.JUANG		06/07/02	dwg no 10010556 sheet 3 of 21 size A3
				engr A.JUANG		06/07/02	
				chr A.JUANG		06/07/02	
				appd JENN.TSAO		06/07/02	type Product Customer Drawing
sheet index	revision sheet						

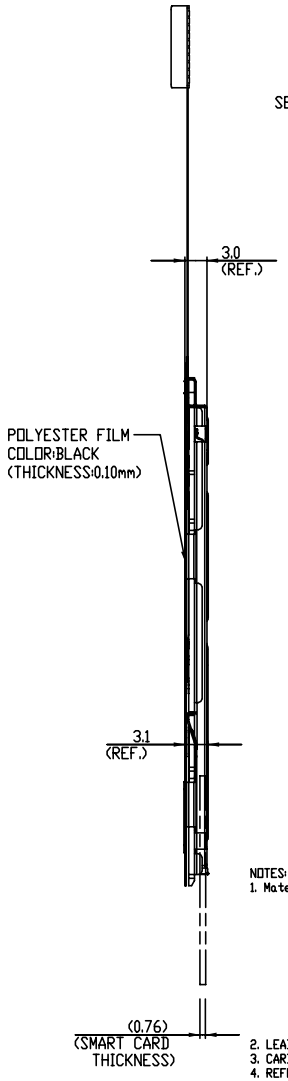
form A3

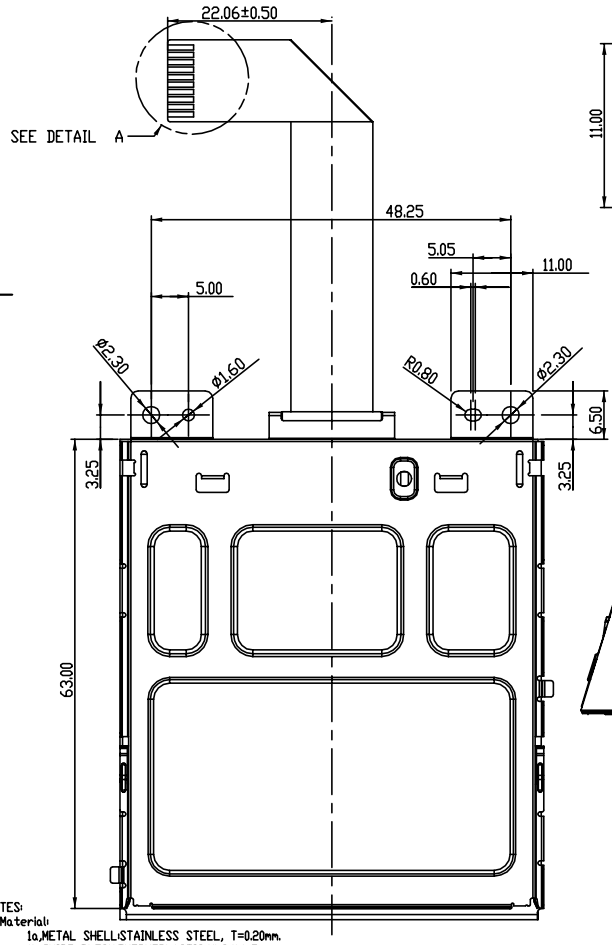
PDS: Rev :W STATUS: Released Printed: Feb 04, 2013

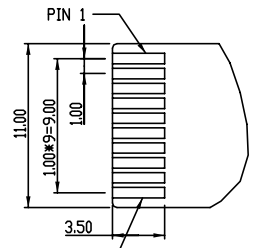
PART NUMBER
10010556-003LF

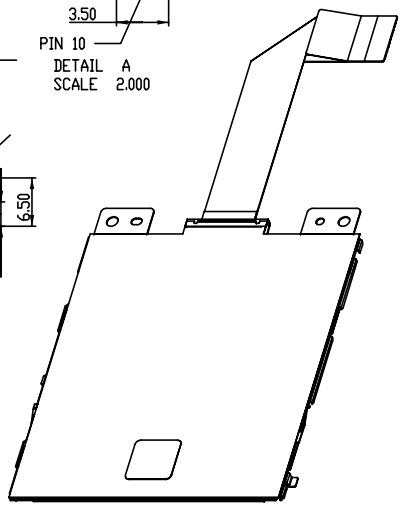












NOTES:
1. Material:
   1a,METAL SHELL:STAINLESS STEEL, T=0.20mm.
   1b,GUIDE BLOCK:THERMOPLASTIC,UL94V-0.
   1c,PCB: FR-4, T=0.80mm, UL94V-0.
   1d,FLAT CABLE: POLYESTER,UL20624,NO PRINTING,PLATING SPEC AS BELOW:
      CONTACT SIDE PLATING: Au 1-3 uin.
      SOLDER SIDE PLATING: Matte Tin 50uin Min.
   1e,TERMINAL: PHOSPHOR BRONZE, PLATING SPEC AS BELOW:
      UNDERPLATING: Ni 100 uin Min.
      CONTACT PLATING: Au 30 uin Min.
      SOLDER TAIL: Matte TIN 75 uin Min.
2. LEAD FREE AND ROHS COMPLIANT PRODUCT.
3. CARD DETECTION SWITCH NORMALLY OPEN WITHOUT MATING CARD.
4. REFERENCE SPECIFICATION:
   PRODUCT SPEC.:GS-12-231.
   PACKING SPEC.:GS-14-829.

PIN NO.	ASSIGNMENT	DEFINED BY ISO 7816
10	SENSOR 2	
9	SENSOR 1	
8	RFU8	C 8
7	RFU4	C 4
6	I/O	C 7
5	CLOCK	C 3
4	VPP	C 6
3	RESET	C 2
2	GND	C 5
1	VCC	C 1

mat'l. code				surface ISO 1302	tolerance ISO 406 ISO 1101	projection	product family 95		
ltr	ecn	nodr	date	tolerances unless otherwise specified			title		
W				angles 0±2°	linear 0.X±0.5 / 0.XX±0.30 / 0.XXX±0.10	MM scale NA	SMART CARD READER ASSEMBLY		
				dr A.JUANG 06/07/02			dwg no 10010556	sheet 4 of 21	size A3
				engr A.JUANG 06/07/02					
				chr A.JUANG 06/07/02					
				appd JENN.TSAO 06/07/02			type Product Customer Drawing		
sheet index	revision sheet								

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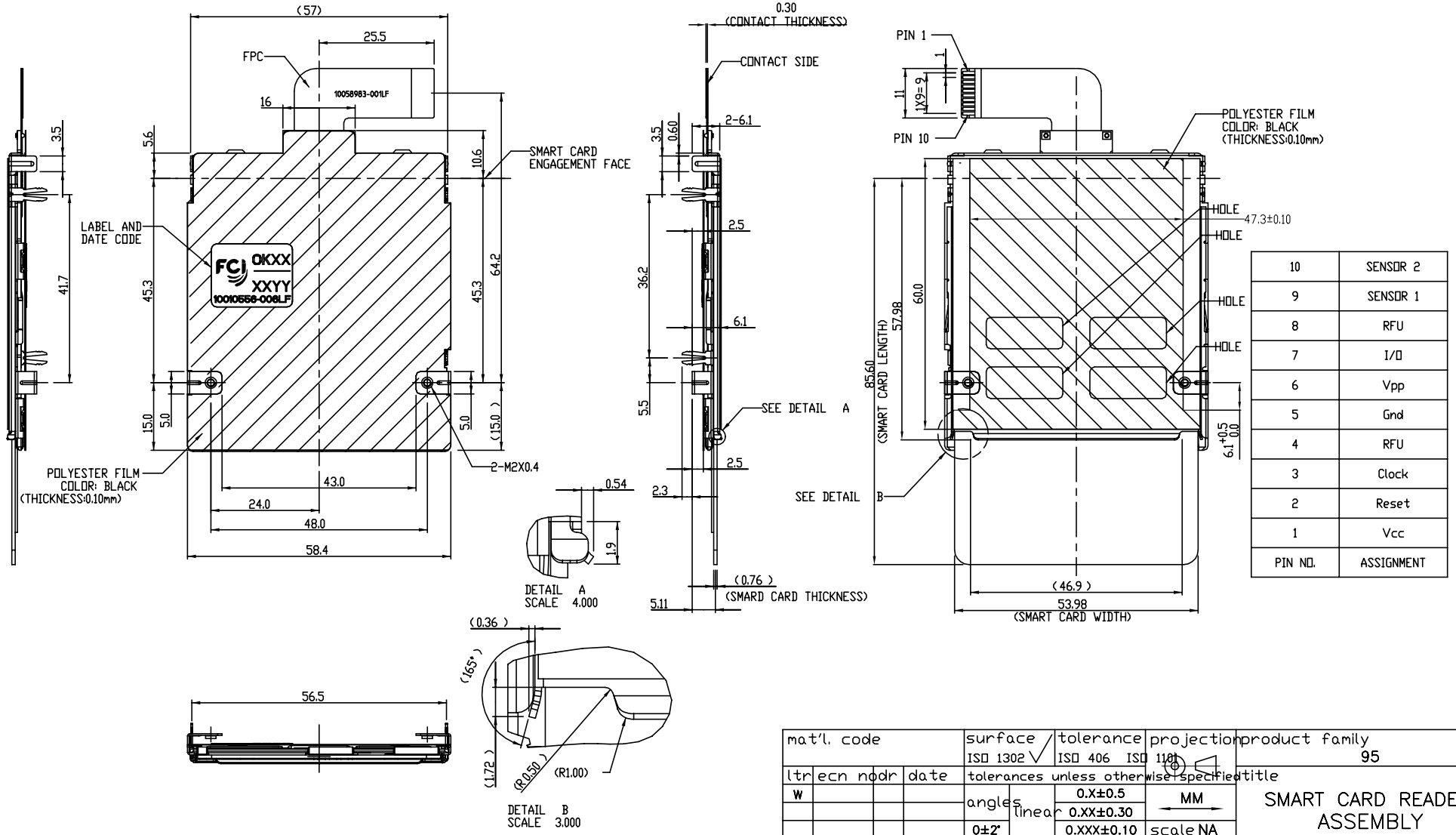
PRODUCT NO
10010556-006LF



PIN NO.	ASSIGNMENT
10	SENSOR 2
9	SENSOR 1
8	RFU
7	I/O
6	Vpp
5	Gnd
4	RFU
3	Clock
2	Reset
1	Vcc

mat'l. code				surface ISO 1302	tolerance ISO 406 ISO 1101	projection	product family 95
ltr	ecn	nodr	date	tolerances unless otherwise specified			title
W				angles 0±2°	linear 0.X±0.5 / 0.XX±0.30 / 0.XXX±0.10	MM scale NA	SMART CARD READER ASSEMBLY
				dr A.JUANG 06/07/02			dwg no 10010556 sheet 6 of 21 size A3
				engr A.JUANG 06/07/02			
				chr A.JUANG 06/07/02			
				appd JENN.TSAO 06/07/02			type Product Customer Drawing
sheet index	revision sheet						

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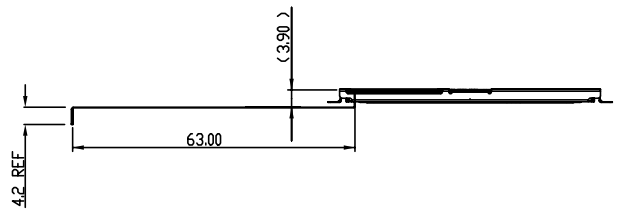
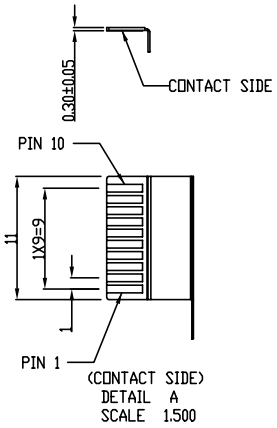
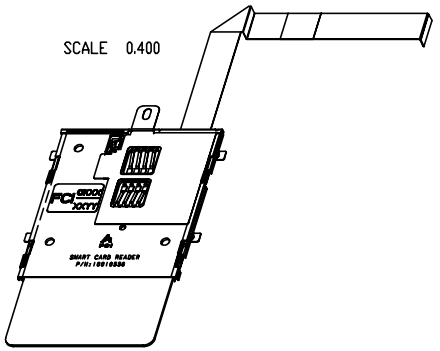
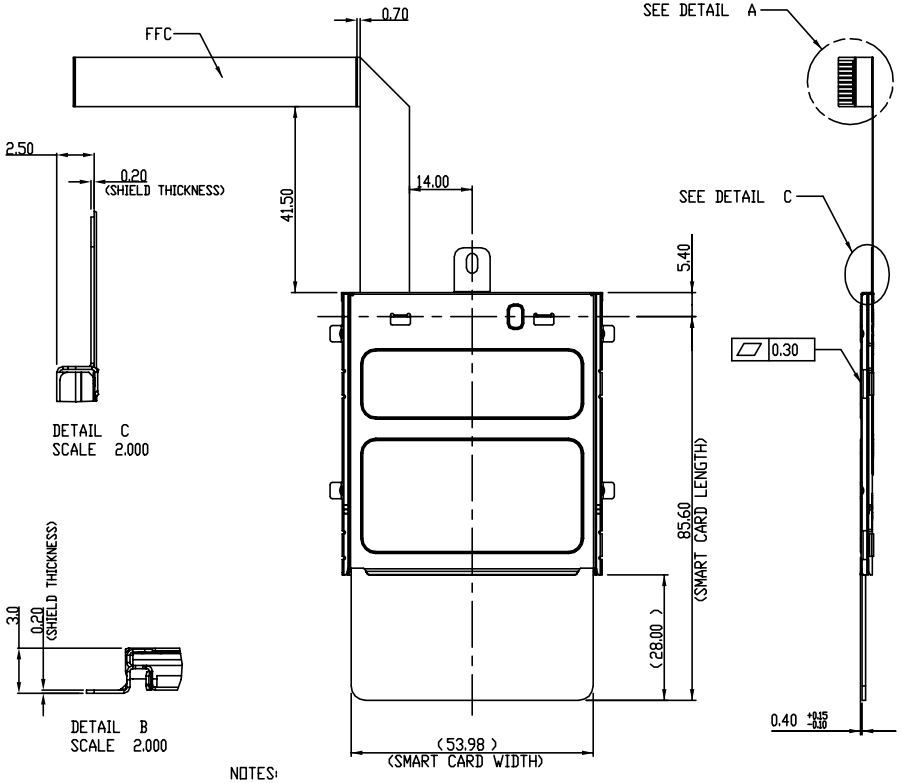
form A3

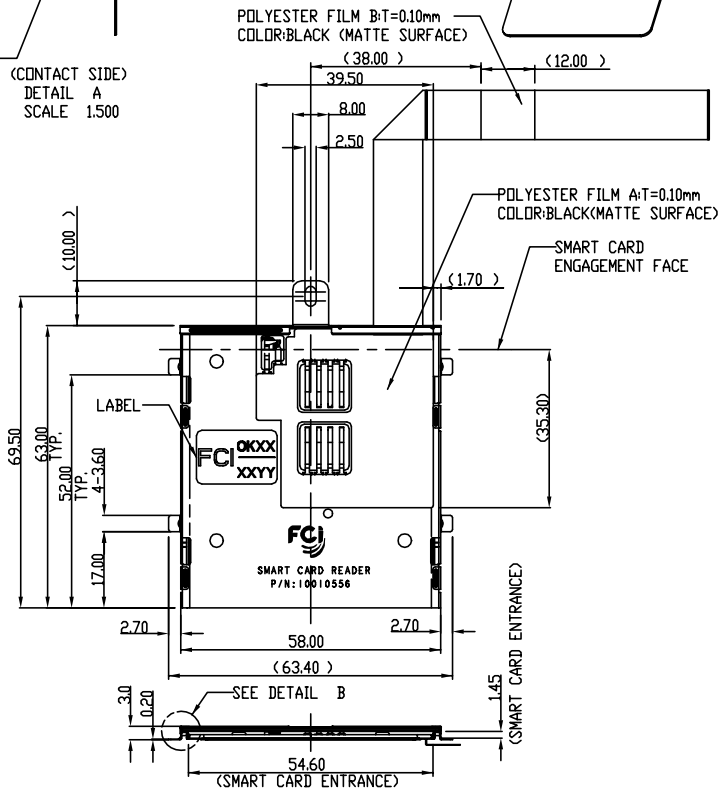
PRODUCT NO
10010556-004LF











PIN NO.	ASSIGNMENT
10	RFU
9	I/O
8	Vpp
7	GND
6	Sensor 2
5	Sensor 1
4	Vcc
3	Reset
2	Clock
1	RFU

NOTES:
1. Material:
   METAL SHELL:STAINLESS STELL, T=0.20mm
   PCB: FR-4, T=0.80mm
   TERMINAL: PHOSPHOR BRONZE.
   PLATING SPEC AS BELOW:
   ALL OVER NICKEL UNDERPLATING
   GOLD PLATING ON CONTACT SURFACE.
   MATTE TIN PLATING ON SOLDER TAIL.
   FLEXIBLE FLAT CABLE: TOTAL LENGTH=124±2mm
   PLATING SPEC AS BELOW:
   CONTACT SURFACE: TIN PLATING.
   SOLDER TAIL: TIN PLATING.
2. CARD DETECTION SWITCH NORMALLY OPEN WITHOUT MATING CARD
3. REFERENCE SPECIFICATION:
   PRODUCT SPEC. GS 12-231
   PACKING SPEC. GS 14-829

mat'l. code				surface ISO 1302	tolerance ISO 406	projection ISO 1101	product family 95				
ltr	ecn	nodr	date	tolerances unless otherwise specified			title				
W				angles 0±2°	linear 0.X±0.5 / 0.XX±0.30 / 0.XXX±0.10	MM	SMART CARD READER ASSEMBLY				
						scale NA					
				dr A.JUANG 06/07/02			dwg no 10010556	sheet 5 of 21	size A3		
				engr A.JUANG 06/07/02							
				chr A.JUANG 06/07/02							
				appd JENN.TSAO 06/07/02			type Product Customer Drawing				
sheet index	revision sheet										

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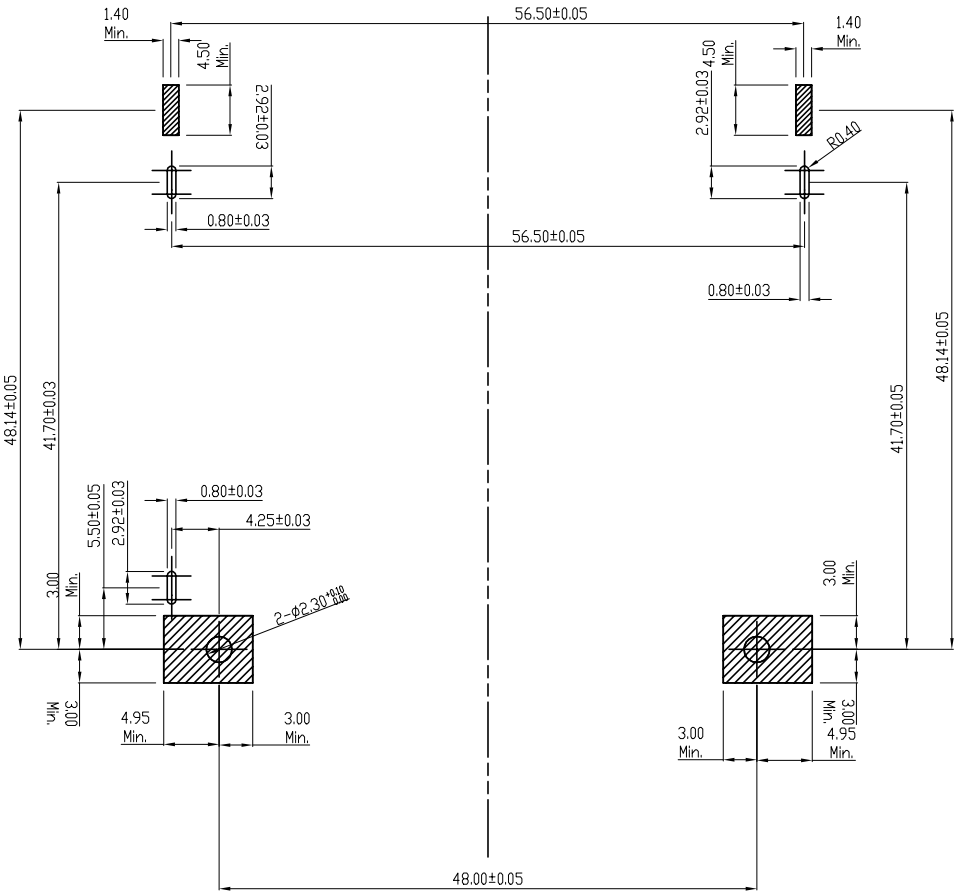
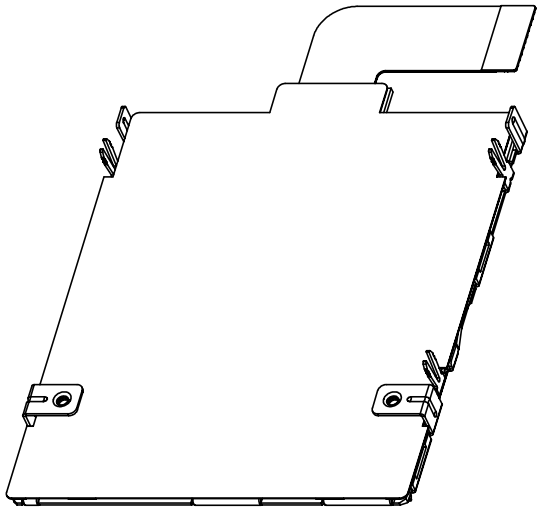
PRODUCT NO
10010556-006LF



RECOMMANDED PCB LAYOUT
(PCB THICKNESS: 1.2 mm)
(MOUNTING SIDE)



NOTES:
1. MATERIAL:
   METAL SHELL:STAINLESS STELL, T=0.40mm
   PCB: FR-4, T=0.80mm
   TERMINAL: PHOSPHOR BRONZE.
   PLATING SPEC AS BELOW:
   ALL OVER NICKEL UNDERPLATING
   GOLD PLATING ON CONTACT SURFACE.
   MATTE TIN PLATING ON SOLDER TAIL.
   FLEX CIRCUIT CABLE(FPC):
   PLATING SPEC AS BELOW:
   CONTACT SURFACE:GOLD FLASH PLATING.
   SOLDER TAIL:PURE TIN PLATING.
2. CARD DETECTION SWITCH NORMALLY OPEN WITHOUT MATING CARD
3. REFERENCE SPECIFICATION:
   PRODUCT SPEC. GS-12-231
   PACKING SPEC. GS-14-829

mat'l. code				surface ISO 1302	tolerance ISO 406 ISO 1101	projection	product family 95				
ltr	ecn	nodr	date	tolerances unless otherwise specified			title				
W				angles 0±2°	linear 0.X±0.5	MM	SMART CARD READER ASSEMBLY				
					0.XX±0.30						
					0.XXX±0.10	scale NA					
				dr A.JUANG 06/07/02			dwg no 10010556	sheet 7 of 21	size A3		
				engr A.JUANG 06/07/02							
				chr A.JUANG 06/07/02							
				appd JENN.TSAO 06/07/02			type Product Customer Drawing				
sheet index	revision sheet										

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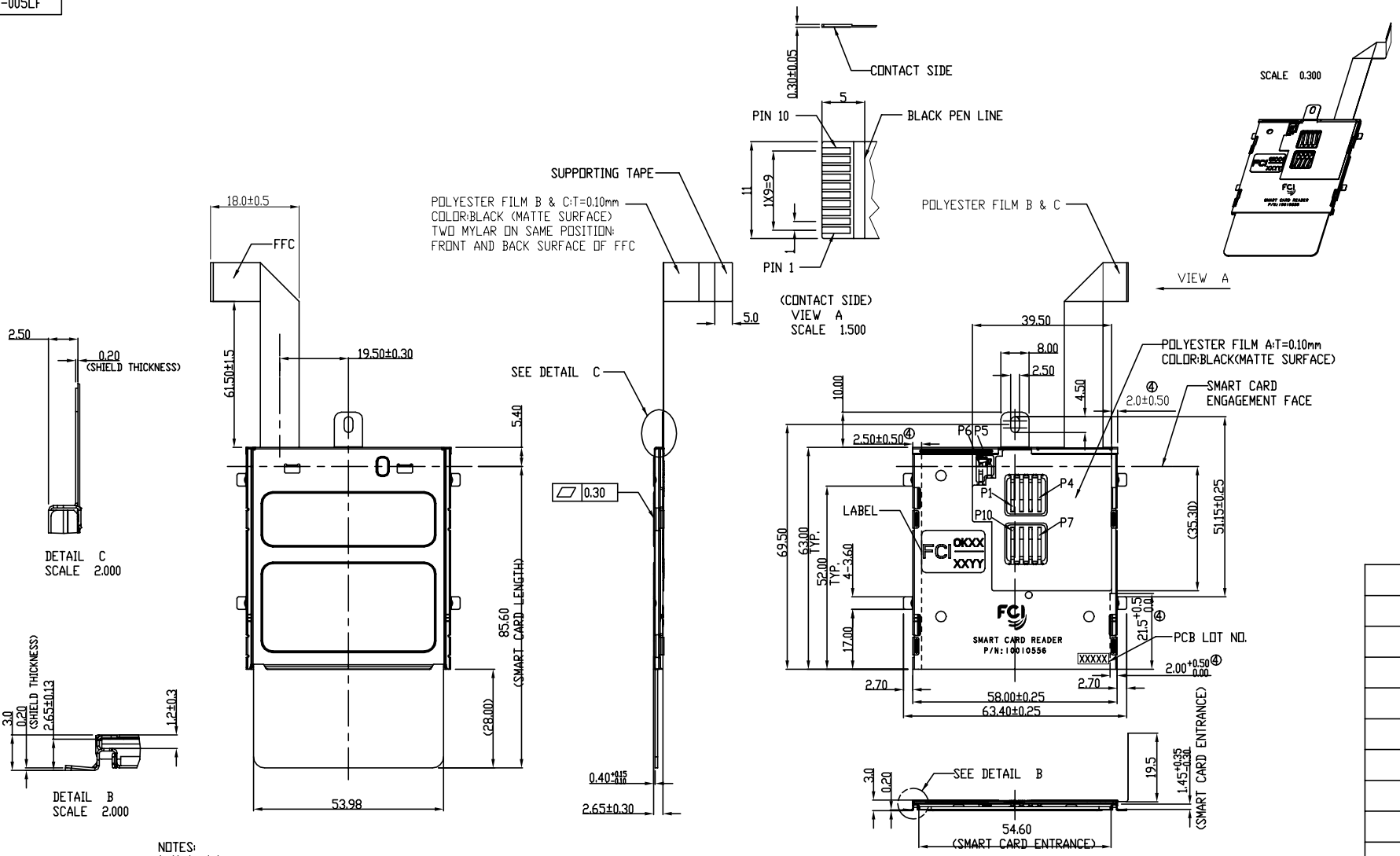
PRODUCT NO
10010556-005LF



10	RFU
9	I/O
8	Vpp
7	GND
6	Sensor 2
5	Sensor 1
4	Vcc
3	Reset
2	Clock
1	RFU
PIN NO.	ASSIGNMENT

NOTES:
1. Material:
   METAL SHELL:STAINLESS STELL, T=0.20mm
   PCB: FR-4, T=0.80mm
   TERMINAL: PHOSPHOR BRONZE.
   PLATING SPEC AS BELOW:
   ALL OVER NICKEL UNDERPLATING
   GOLD PLATING ON CONTACT SURFACE.
   MATTE TIN PLATING ON SOLDER TAIL.
   FLEXIBLE FLAT CABLE: TOTAL LENGTH=103.5±2mm
   PLATING SPEC AS BELOW:
   CONTACT SURFACE: TIN PLATING.
   SOLDER TAIL: TIN PLATING.
2. CARD DETECTION SWITCH NORMALLY OPEN WITHOUT MATING CARD
3. REFERENCE SPECIFICATION:
   PRODUCT SPEC. GS 12-231
   PACKING SPEC. GS 14-829
④ THE AREA IS PROHIBITED TO PASTE THE MYLAR AND LABEL.

mat'l. code				surface ISO 1302	tolerance ISO 406	projection ISO 1101	product family 95		
ltr	ecn	nodr	date	tolerances unless otherwise specified			title		
W				angles 0±2°	linear 0.X±0.5 / 0.XX±0.30 / 0.XXX±0.10	MM scale NA	SMART CARD READER ASSEMBLY		
				dr A.JUANG 06/07/02			dwg no 10010556	sheet 8 of 21	size A3
				engr A.JUANG 06/07/02					
				chr A.JUANG 06/07/02					
				appd JENN.TSAO 06/07/02			type Product Customer Drawing		
sheet index	revision sheet								

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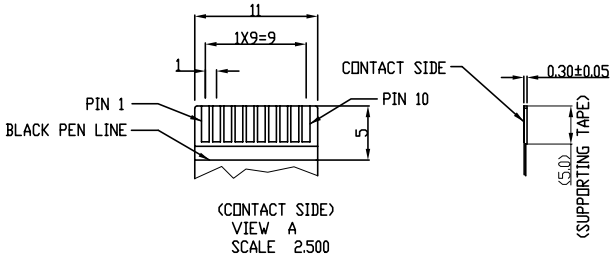
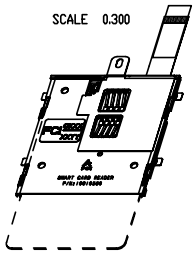
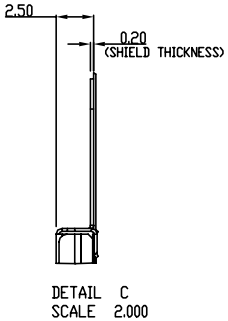
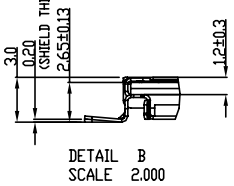
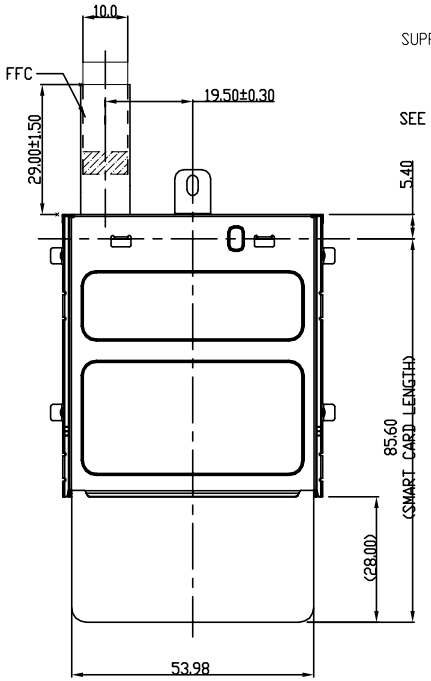
PRODUCT NO
10010556-008LF

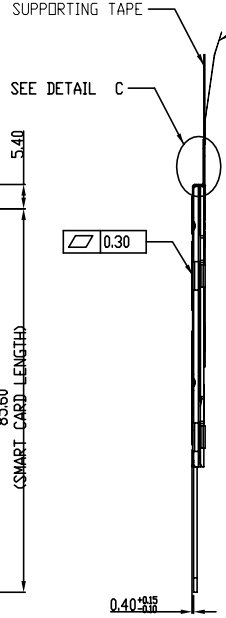


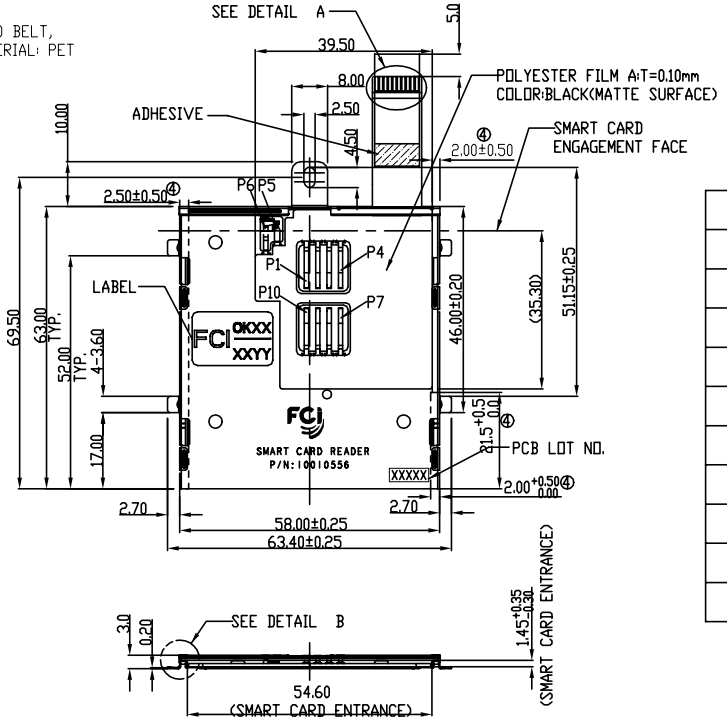












PIN NO.	ASSIGNMENT
10	RFU
9	I/O
8	Vpp
7	GND
6	Sensor 2
5	Sensor 1
4	Vcc
3	Reset
2	Clock
1	RFU

NOTES:
1. Material:
   METAL SHELL:STAINLESS STELL, T=0.20mm
   PCB: FR-4, T=0.80mm
   TERMINAL: PHOSPHOR BRONZE.
   PLATING SPEC AS BELOW:
   ALL OVER NICKEL UNDERPLATING
   GOLD PLATING ON CONTACT SURFACE.
   MATTE TIN PLATING ON SOLDER TAIL.
   FLEXIBLE FLAT CABLE: TOTAL LENGTH=33.5±1mm
   PLATING SPEC AS BELOW:
   CONTACT SURFACE: TIN PLATING.
   SOLDER TAIL: TIN PLATING.
2. CARD DETECTION SWITCH NORMALLY OPEN WITHOUT MATING CARD
3. REFERENCE SPECIFICATION:
   PRODUCT SPEC. GS 12-231
   PACKING SPEC. GS 14-829
④ THE AREA IS PROHIBITED TO PASTE THE MYLAR AND LABEL.

mat'l. code		surface ISO 1302	tolerance ISO 406 ISO 1101
ltr	ecn nodr date	tolerances unless otherwise specified	
W		angles 0±2°	linear 0.X±0.5, 0.XX±0.30, 0.XXX±0.10
		dr A.JUANG 06/07/02	
		engr A.JUANG 06/07/02	
		chr A.JUANG 06/07/02	
		appd JENN.TSAO 06/07/02	
sheet index	revision sheet		

projection: MM
scale NA
product family: 95
title: SMART CARD READER ASSEMBLY
dwg no 10010556
sheet 9 of 21
size A3
type Product Customer Drawing

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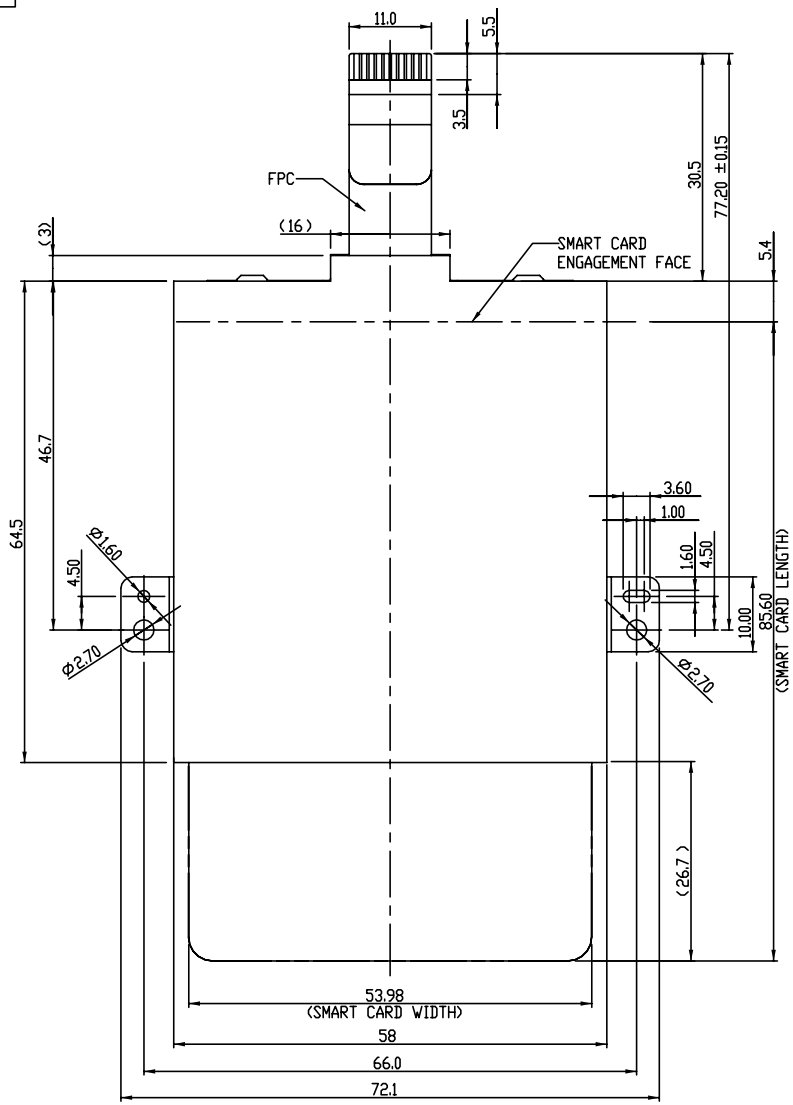
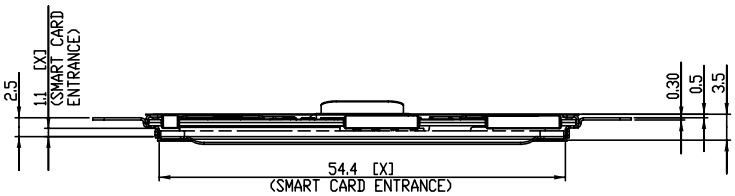
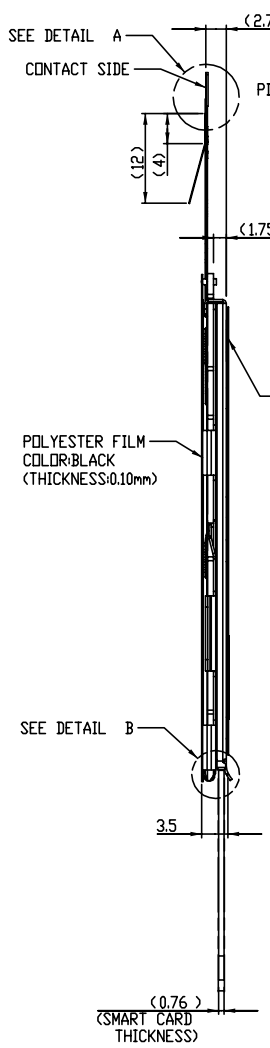
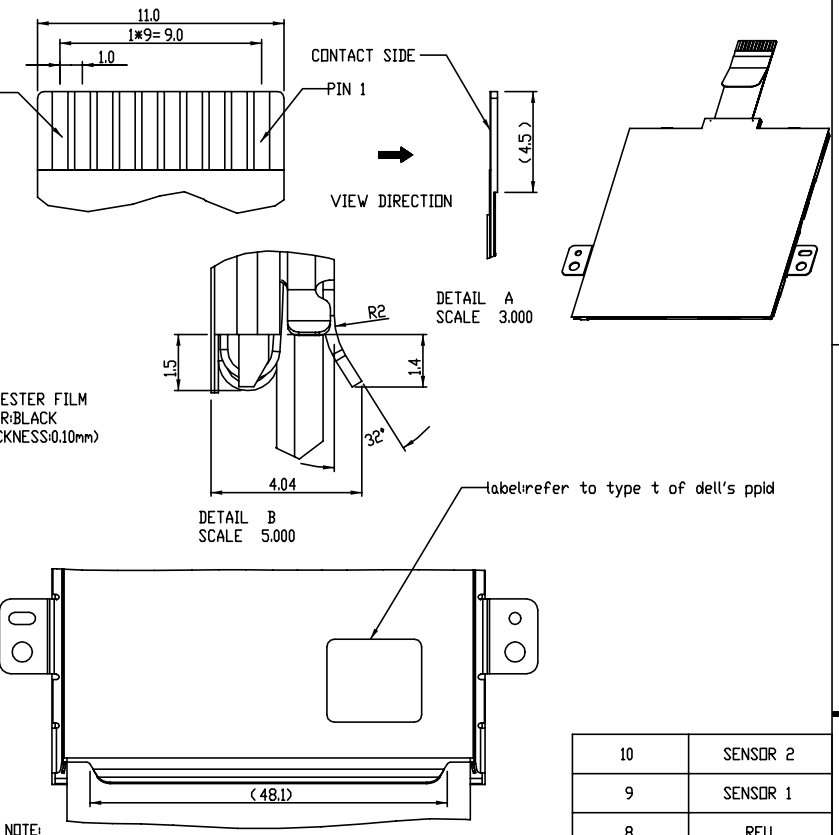
form A3

PART NUMBER
10010556-007LF









NOTE:
1. Material:
   METAL SHELL:STAINLESS STEEL, T=0.30mm
   GUIDE BLOCK:THERMOPLASTIC,UL94V-0.
   PCB: FR-4, T=0.80mm, UL94V-0.
   FPC: POLYIMIDE, T=0.30mm, UL94V-0.
   PLATING SPEC AS BELOW:
   UNDERPLATING: Ni 50 uin Min.
   CONTACT SIDE PLATING: Au 3 uin, Min.
   SOLDER SIDE PLATING: Pure Tin 100 uin Min.
   TERMINAL: COPPER ALLOY.
   PLATING SPEC AS BELOW:
   UNDERPLATING: Ni 50 uin Min.
   CONTACT PLATING: Au 30 uin Min.
   SOLDER TAIL: Pure TIN 75 uin Min.
2. CARD DETECTION SWITCH NORMALLY OPEN WITHOUT MATING CARD
3. REFERENCE SPECIFICATION:
   PRODUCT SPEC.:GS-12-231.
   PACKING SPEC.:GS-14-829.

PIN NO.	ASSIGNMENT
10	SENSOR 2
9	SENSOR 1
8	RFU
7	I/O
6	VPP
5	GND
4	RFU
3	CLOCK
2	RESET
1	VCC

mat'l. code				surface ISO 1302	tolerance ISO 406	projection ISO 1101	product family 95				
ltr	ecn	nodr	date	tolerances unless otherwise specified			title				
W				angles 0±2°	linear 0.X±0.5 / 0.XX±0.30 / 0.XXX±0.10	MM	SMART CARD READER ASSEMBLY				
						scale NA					
				dr A.JUANG	06/07/02		dwg no 10010556	sheet 10 of 21	size A3		
				engr A.JUANG	06/07/02						
				chr A.JUANG	06/07/02						
				appd JENN.TSAO	06/07/02		type Product Customer Drawing				
sheet index	revision sheet										

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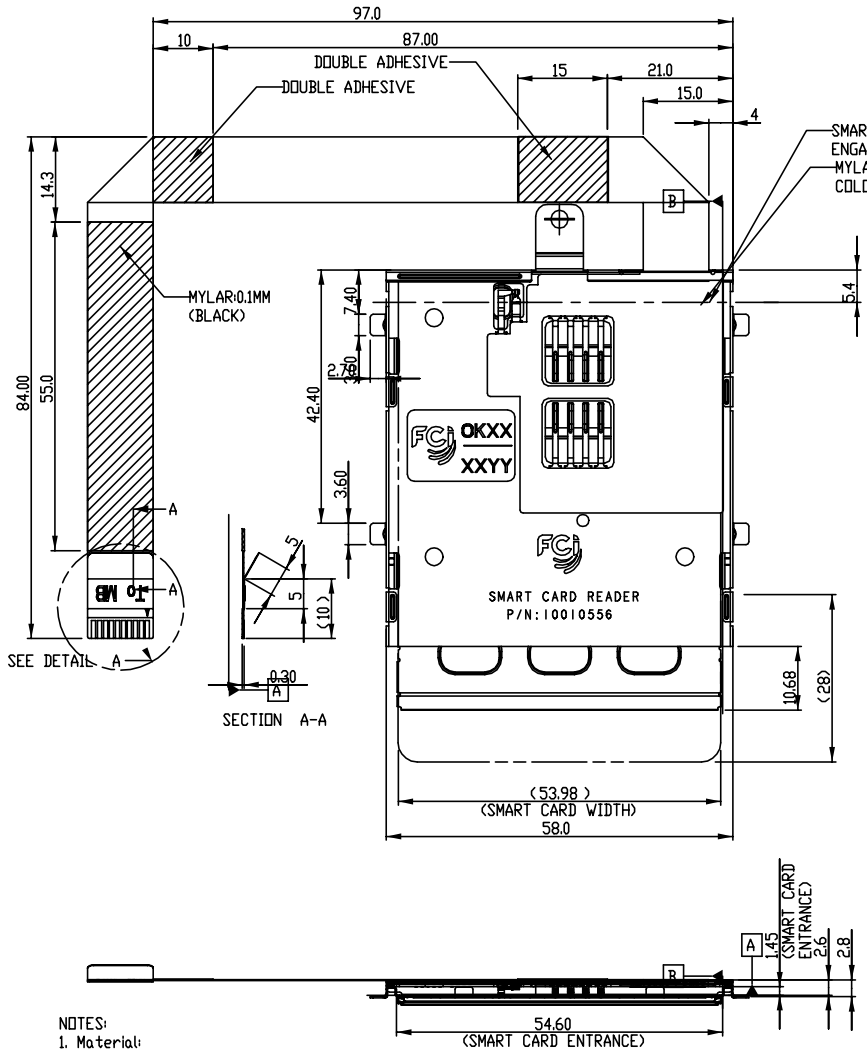
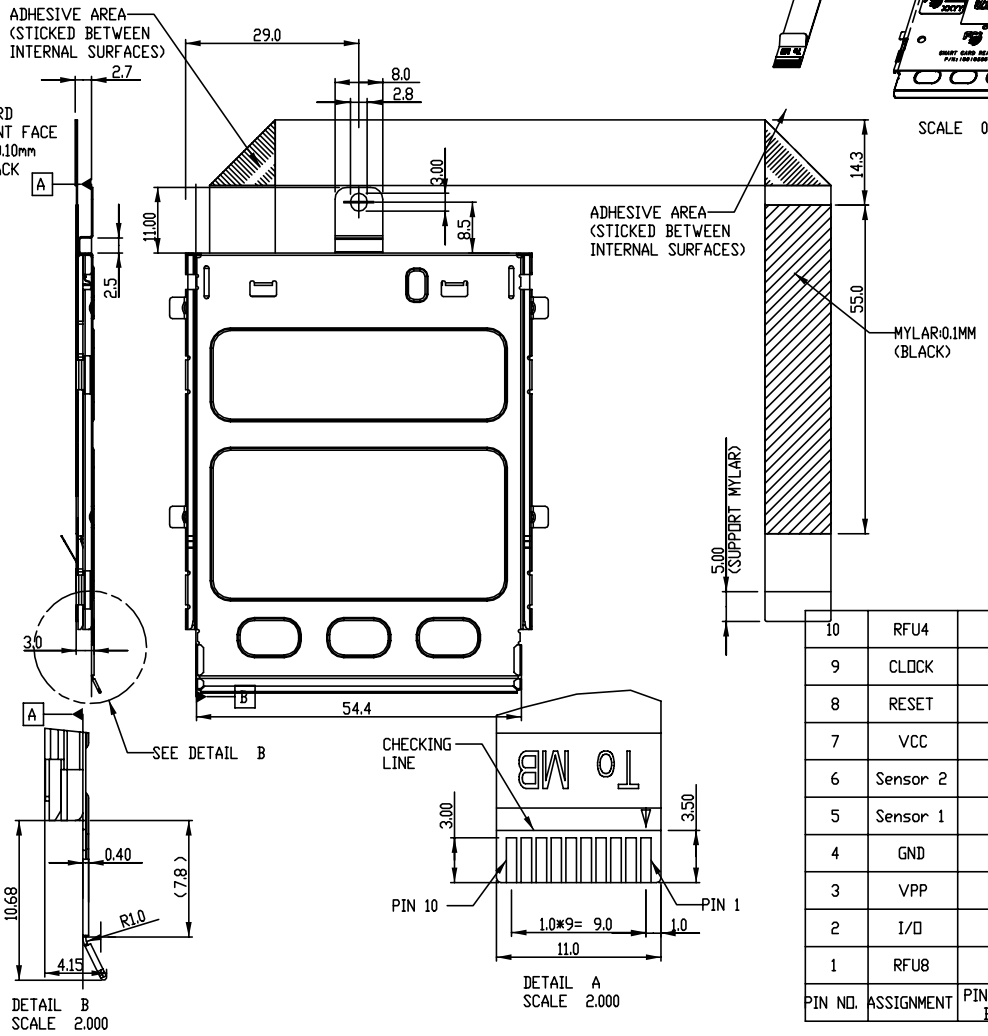
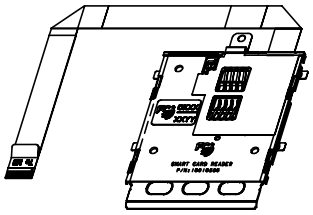
PART NUMBER
10010556-009LF







10	RFU4	C4
9	CLOCK	C3
8	RESET	C2
7	VCC	C1
6	Sensor 2	
5	Sensor 1	
4	GND	C5
3	VPP	C6
2	I/O	C7
1	RFU8	C8
PIN NO.	ASSIGNMENT	PIN NO.DEFINED BY ISO-7816

NOTES:
1. Material:
METAL SHELL:STAINLESS STELL, T=0.20mm
PCB: FR-4, T=0.80mm
TERMINAL: COPPER ALLOY.
PLATING SPEC AS BELOW:
ALL OVER NICKEL UNDERPLATING
GOLD PLATING ON CONTACT SURFACE.
MATTE TIN PLATING ON SOLDER TAIL.
FLEXIBLE FLAT CABLE: TOTAL LENGTH=33.5±1mm
PLATING SPEC AS BELOW:
CONTACT SURFACE: TIN PLATING.
SOLDER TAIL: TIN PLATING.
2. CARD DETECTION SWITCH NORMALLY OPEN WITHOUT MATING CARD

mat'l. code				surface ISO 1302	tolerance ISO 406	projection ISO 1101	product family 95				
ltr	ecn	nodr	date	tolerances unless otherwise specified			title				
W				angles 0±2°	linear 0.X±0.5 / 0.XX±0.30 / 0.XXX±0.10	MM	SMART CARD READER ASSEMBLY				
						scale NA					
				dr A.JUANG	06/07/02		dwg no 10010556	sheet 11 of 21	size A3		
				engr A.JUANG	06/07/02						
				chr A.JUANG	06/07/02						
				appd JENN.TSAO	06/07/02		type Product Customer Drawing				
sheet index	revision sheet										

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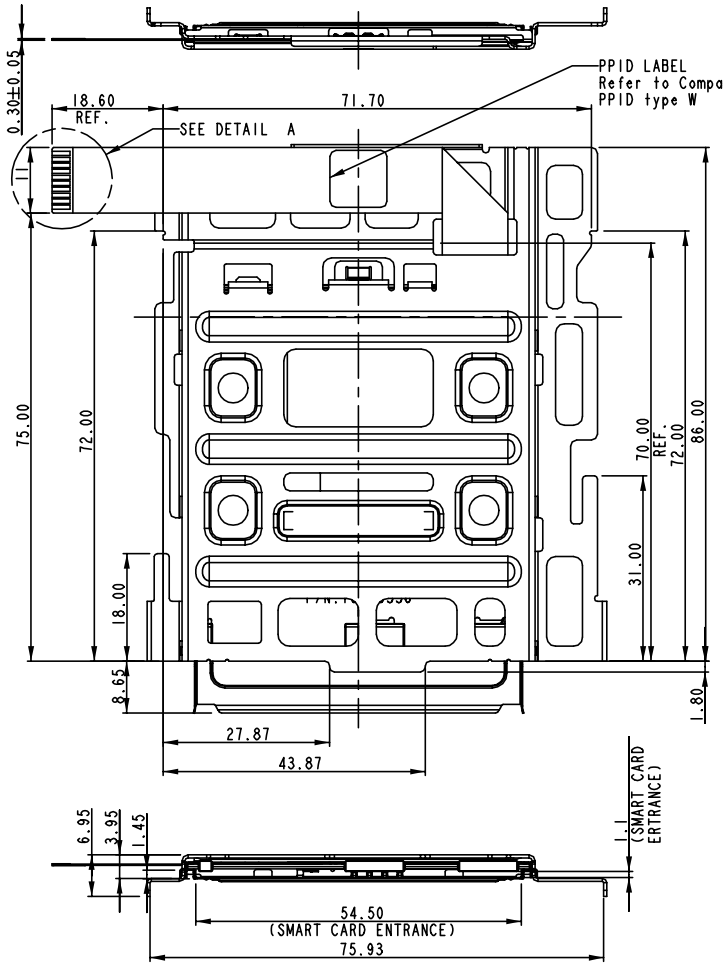
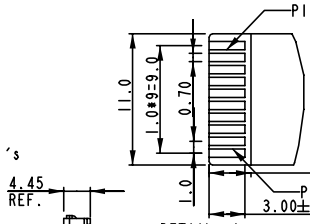
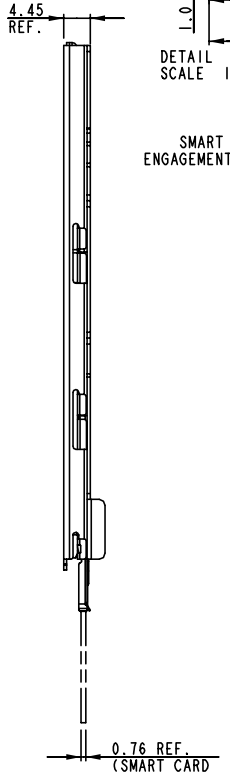
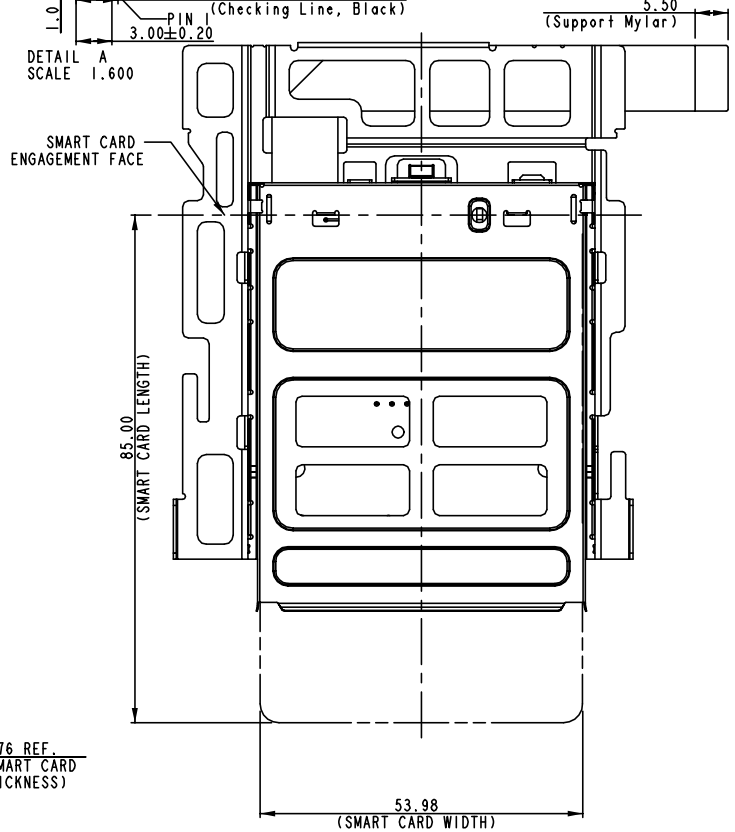
form A3

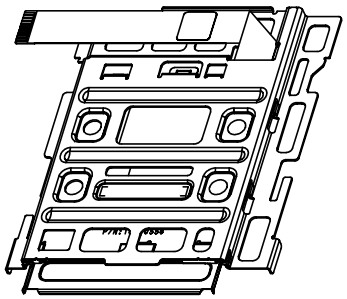
PART NUMBER
10010556-010LF











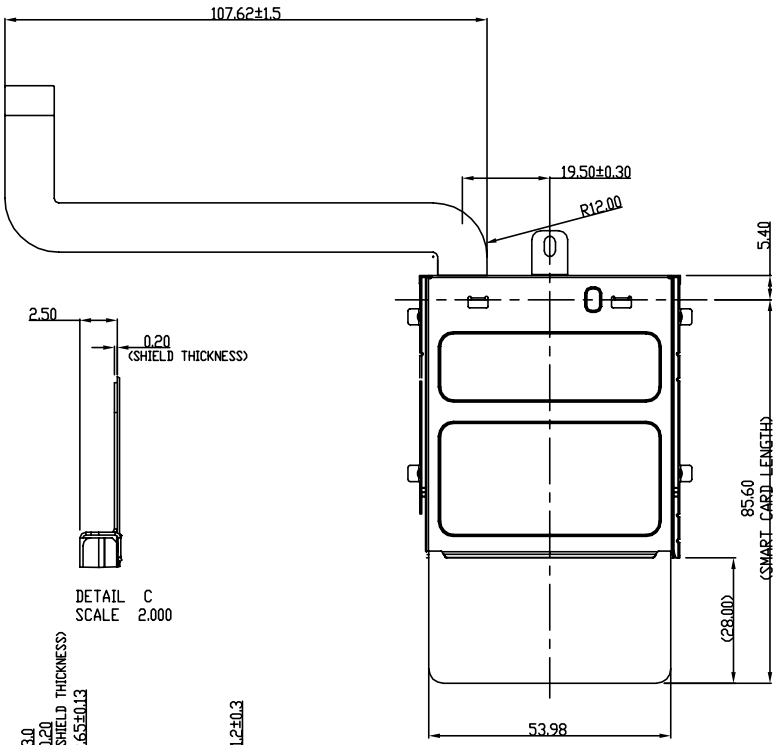
SCALE 0.500

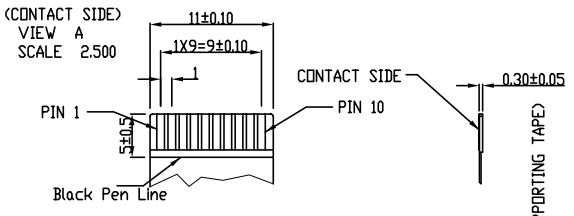
10	VCC	C1
9	Reset	C2
8	Clock	C3
7	RFU4	C4
6	Gnd	C5
5	VPP	C6
4	I/O	C7
3	RFU8	C8
2	SENSOR 2	
1	SENSOR 1	
PIN NO.	ASSIGNMENT	PIN NO.DEFINED BY ISO-7816

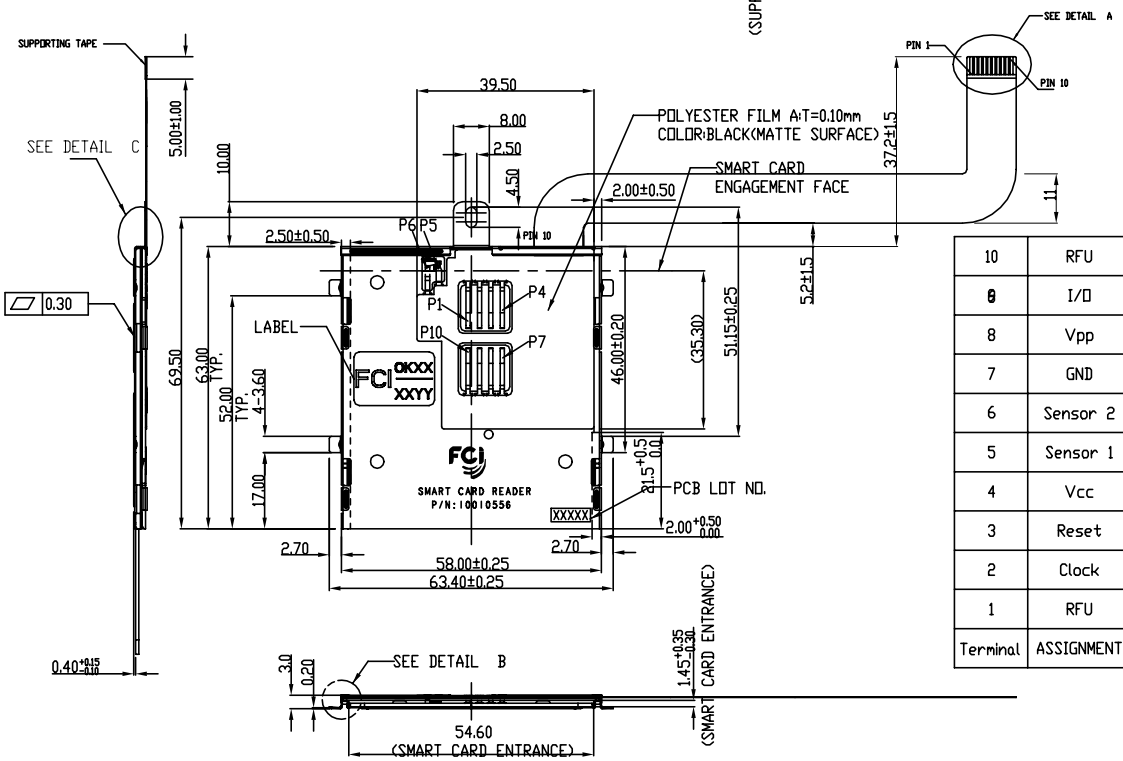
NOTE:
1. Material:
   METAL SHELL:STAINLESS STEEL
   BRACKET:STELL.
   GUIDE BLOCK:THERMOPLASTIC,UL94V-0.
   PCB: FR-4, T=0.80mm, UL94V-0.
   FFC: POLYESTER, UL20624.
   PLATING SPEC AS BELOW:
   CONTACT SIDE PLATING: GOLD.
   SOLDER SIDE PLATING: Pure Tin.
   TERMINAL: COPPER ALLOY.
   PLATING SPEC AS BELOW:
   UNDERPLATING: NICKEL.
   CONTACT PLATING: GOLD.
   SOLDER TAIL: Pure TIN.
2. CARD DETECTION SWITCH NORMALLY OPEN WITHOUT MATING CARD
3. REFERENCE SPECIFICATION:
   PRODUCT SPEC.:GS-12-231.
   PACKING SPEC.:GS-14-829.

| | | |

PRODUCT NO
10010556-011LF







10	RFU	10
9	I/O	9
8	Vpp	8
7	GND	7
6	Sensor 2	6
5	Sensor 1	5
4	Vcc	pin 4
3	Reset	pin 3
2	Clock	pin 2
1	RFU	pin 1
Terminal	ASSIGNMENT	FPC

NOTE:
1. Material:
   METAL SHELL:STAINLESS STELL, T=0.20mm
   PCB: FR-4, T=0.80mm
   TERMINAL: PHOSPHOR BRONZE.
   PLATING SPEC AS BELOW:
   ALL OVER NICKEL UNDERPLATING
   GOLD PLATING ON CONTACT SURFACE.
   MATTE TIN PLATING ON SOLDER TAIL.

   FPC PLATING SPEC AS BELOW:
   CONTACT SURFACE: GOLD FLASH.
   SOLDER TAIL: TIN PLATING.
2. CARD DETECTION SWITCH NORMALLY OPEN WITHOUT MATING CARD
3. REFERENCE SPECIFICATION:
   PRODUCT SPEC. GS 12-231
   PACKING SPEC. GS 14-829
④ THE AREA IS PROHIBITED TO PASTE THE MYLAR AND LABEL.

mat'l. code				surface	tolerance	projection	product family
				ISO 1302	ISO 406 ISO 1101		95
ltr	ecn	nodr	date	tolerances unless otherwise specified			title
W				angles	0.X±0.5	MM	SMART CARD READER ASSEMBLY
				0±2°	linear 0.XX±0.30		
					0.XXX±0.10	scale NA	
				dr A.JUANG	06/07/02		dwg no 10010556 sheet 13 of 21 size A3
				engr A.JUANG	06/07/02		
				chr A.JUANG	06/07/02		
				appd JENN.TSAO	06/07/02		type Product Customer Drawing
sheet index	revision sheet						

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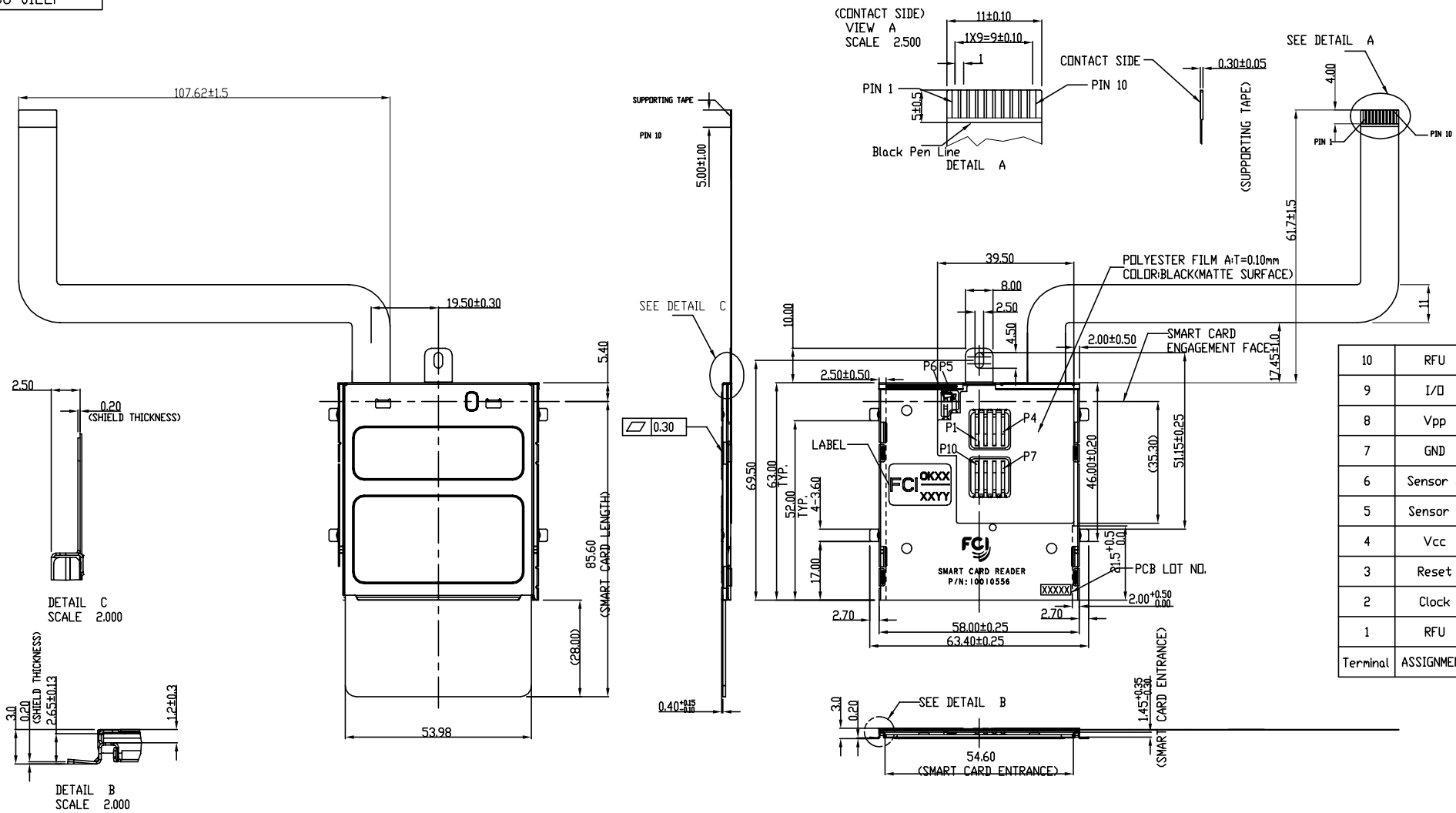
PRODUCT NO
10010556-012LF



10	RFU	10
9	I/O	9
8	Vpp	8
7	GND	7
6	Sensor 2	6
5	Sensor 1	5
4	Vcc	4
3	Reset	3
2	Clock	2
1	RFU	1
Terminal	ASSIGNMENT	FPC

NOTES:
1. Material:
   METAL SHELL:STAINLESS STELL, T=0.20mm
   PCB: FR-4, T=0.80mm
   TERMINAL: PHOSPHOR BRONZE.
   PLATING SPEC AS BELOW:
   ALL OVER NICKEL UNDERPLATING
   GOLD PLATING ON CONTACT SURFACE.
   MATTE TIN PLATING ON SOLDER TAIL.

   FPC PLATING SPEC AS BELOW:
   CONTACT SURFACE: GOLD FLASH.
   SOLDER TAIL: TIN PLATING.
2. CARD DETECTION SWITCH NORMALLY OPEN WITHOUT MATING CARD
3. REFERENCE SPECIFICATION:
   PRODUCT SPEC. GS 12-231
   PACKING SPEC. GS 14-829

④ THE AREA IS PROHIBITED TO PASTE THE MYLAR AND LABEL.

mat'l. code				surface ISO 1302	tolerance ISO 406	projection ISO 1101	product family 95		
ltr	ecn	nodr	date	tolerances unless otherwise specified			title		
W				angles 0±2°	linear 0.X±0.5 / 0.XX±0.30 / 0.XXX±0.10	MM	SMART CARD READER ASSEMBLY		
						scale NA			
				dr A.JUANG 06/07/02			dwg no 10010556	sheet 14 of 21	size A3
				engr A.JUANG 06/07/02					
				chr A.JUANG 06/07/02					
				appd JENN.TSAO 06/07/02			type Product Customer Drawing		
sheet index	revision sheet								

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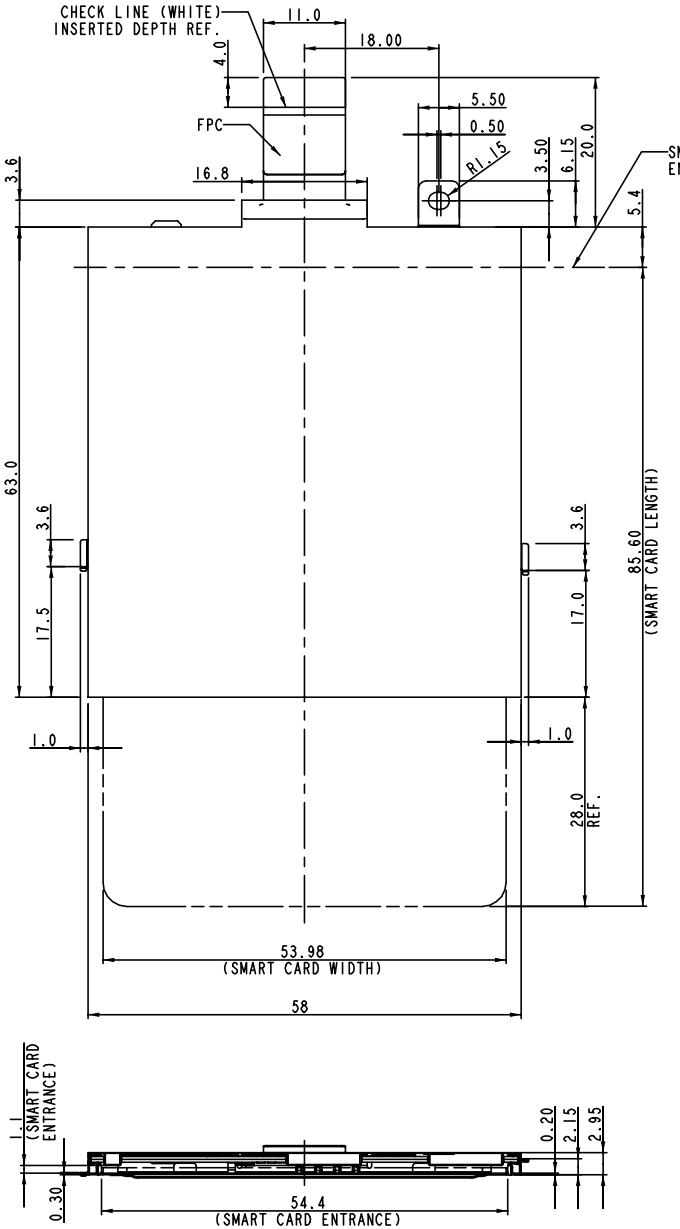
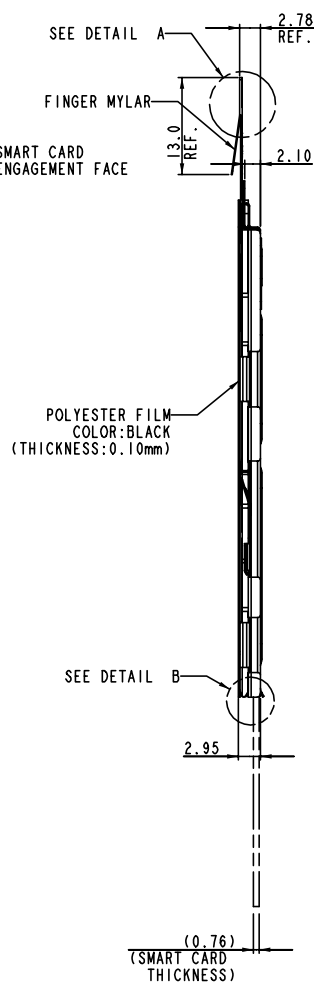
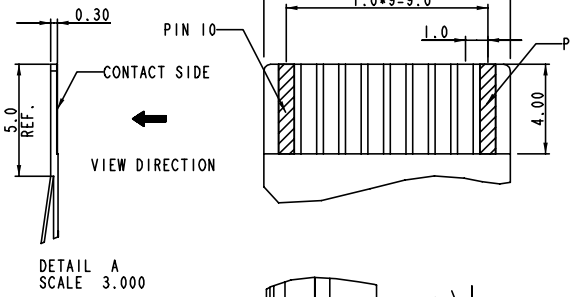
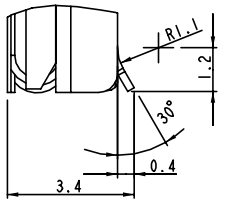
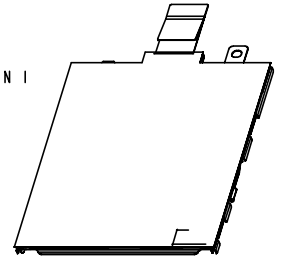
PART NUMBER
10010556-013LF

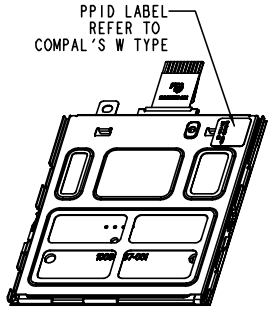


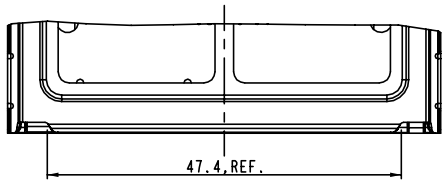












NOTE:
1. Material:
   METAL SHELL:STAINLESS STEEL, T=0.20mm
   GUIDE BLOCK:THERMOPLASTIC,UL94V-0.
   PCB: FR-4, T=0.80mm, UL94V-0.
   FPC: POLYIMIDE, T=0.30mm, UL94V-0.
   PLATING SPEC AS BELOW:
   UNDERPLATING: Ni 50 uin Min.
   CONTACT SIDE PLATING: Au 3 uin Min.
   SOLDER SIDE PLATING: Pure Tin 100 uin Min.
   TERMINAL: COPPER ALLOY.
   PLATING SPEC AS BELOW:
   UNDERPLATING: Ni 50 uin Min.
   CONTACT PLATING: Au 30 uin Min.
   SOLDER TAIL: Pure TIN 75 uin Min.
2. CARD DETECTION SWITCH NORMALLY OPEN WITHOUT MATING CARD
3. REFERENCE SPECIFICATION:
   PRODUCT SPEC.:GS-12-231.
   PACKING SPEC.:GS-14-829.

PIN NO.	ASSIGNMENT	DEFINED BY ISO 7816
10	VCC	C 1
9	GND	C 5
8	RESET	C 2
7	VPP	C 6
6	CLOCK	C 3
5	I/O	C 7
4	RFU 4	C 4
3	RFU 8	C 8
2	SENSOR 2	
1	SENSOR 1	

mat'l. code				surface ISO 1302	tolerance ISO 406 ISO 1101	projection	product family 95		
ltr	ecn	nodr	date	tolerances unless otherwise specified			title		
W				angles 0±2°	linear 0.X±0.5 / 0.XX±0.30 / 0.XXX±0.10	MM scale NA	SMART CARD READER ASSEMBLY		
				dr A.JUANG 06/07/02					
				engr A.JUANG 06/07/02					
				chr A.JUANG 06/07/02					
				appd JENN.TSAO 06/07/02			dwg no 10010556	sheet 15 of 21	size A3
sheet index	revision sheet						type Product Customer Drawing		

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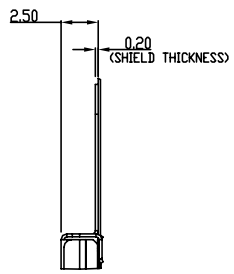
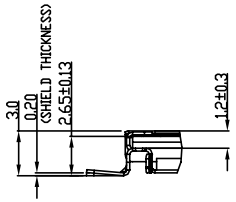
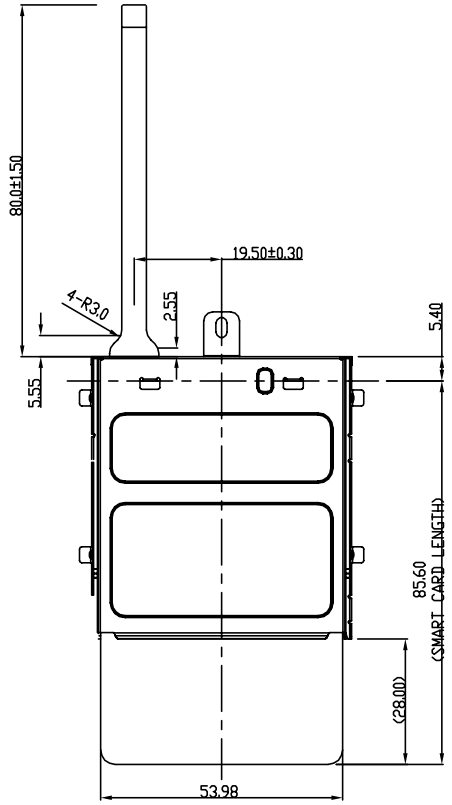
PRODUCT NO	FPC
10010556-014LF	10086571-004

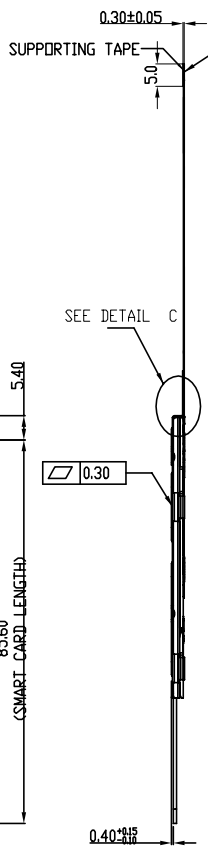


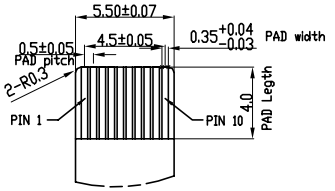
DETAIL C
SCALE 2.000



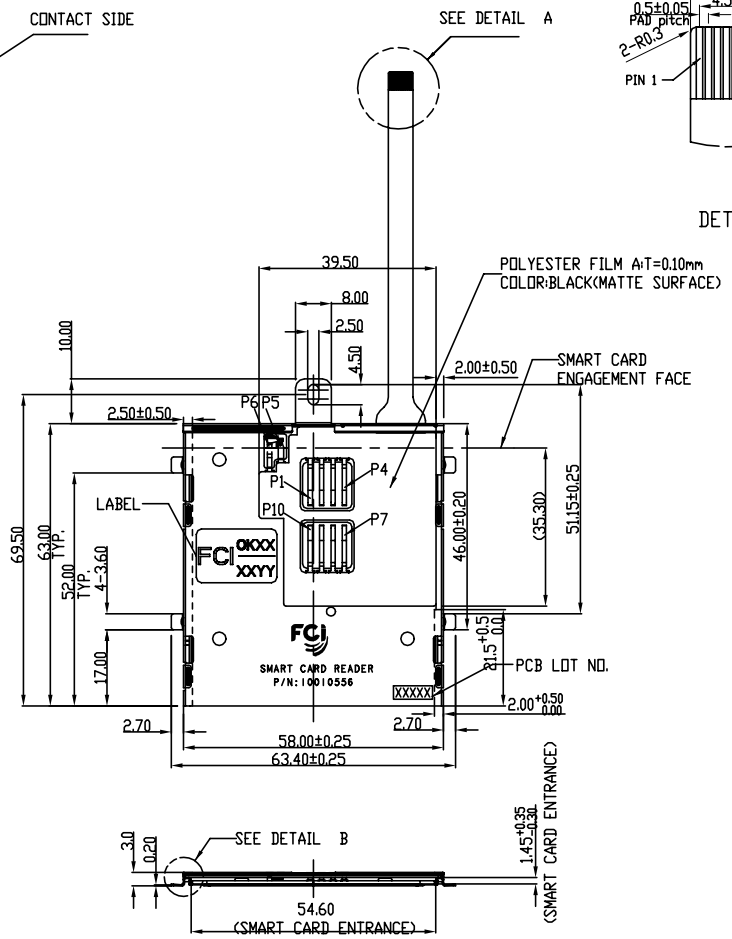
DETAIL B
SCALE 2.000







DETAIL A



P10	RFU	10
P8	Vpp	9
P9	I/O	8
P7	GND	7
P5	Sensor 1	6
P4	Vcc	5
P3	Reset	4
P6	Sensor 2	3
P2	Clock	2
P1	RFU	1
Terminal	ASSIGNMENT	FPC

NOTES:
1. Material:
   METAL SHELL:STAINLESS STELL, T=0.20mm
   PCB: FR-4, T=0.80mm
   TERMINAL: PHOSPHOR BRONZE.
   PLATING SPEC AS BELOW:
   ALL OVER NICKEL UNDERPLATING
   GOLD PLATING ON CONTACT SURFACE.
   MATTE TIN PLATING ON SOLDER TAIL.

   FPC PLATING SPEC AS BELOW:
   CONTACT SURFACE: GOLD FLASH.
   SOLDER TAIL: TIN PLATING.
2. CARD DETECTION SWITCH NORMALLY OPEN WITHOUT MATING CARD
3. REFERENCE SPECIFICATION:
   PRODUCT SPEC. GS 12-231
   PACKING SPEC. GS 14-829
④ THE AREA IS PROHIBITED TO PASTE THE MYLAR AND LABEL.
5. ALL PART SAME AS 10010556-011LF, EXCEPT FPC

mat'l. code				surface ISO 1302	tolerance ISO 406	projection ISO 1101	product family 95				
ltr	ecn	nodr	date	tolerances unless otherwise specified			title				
W				angles 0±2°	linear 0.X±0.5 / 0.XX±0.30 / 0.XXX±0.10	MM	SMART CARD READER ASSEMBLY				
						scale NA					
				dr A.JUANG	06/07/02		dwg no 10010556	sheet 16 of 21	size A3		
				engr A.JUANG	06/07/02						
				chr A.JUANG	06/07/02						
				appd JENN.TSAO	06/07/02		type Product Customer Drawing				
sheet index	revision sheet										

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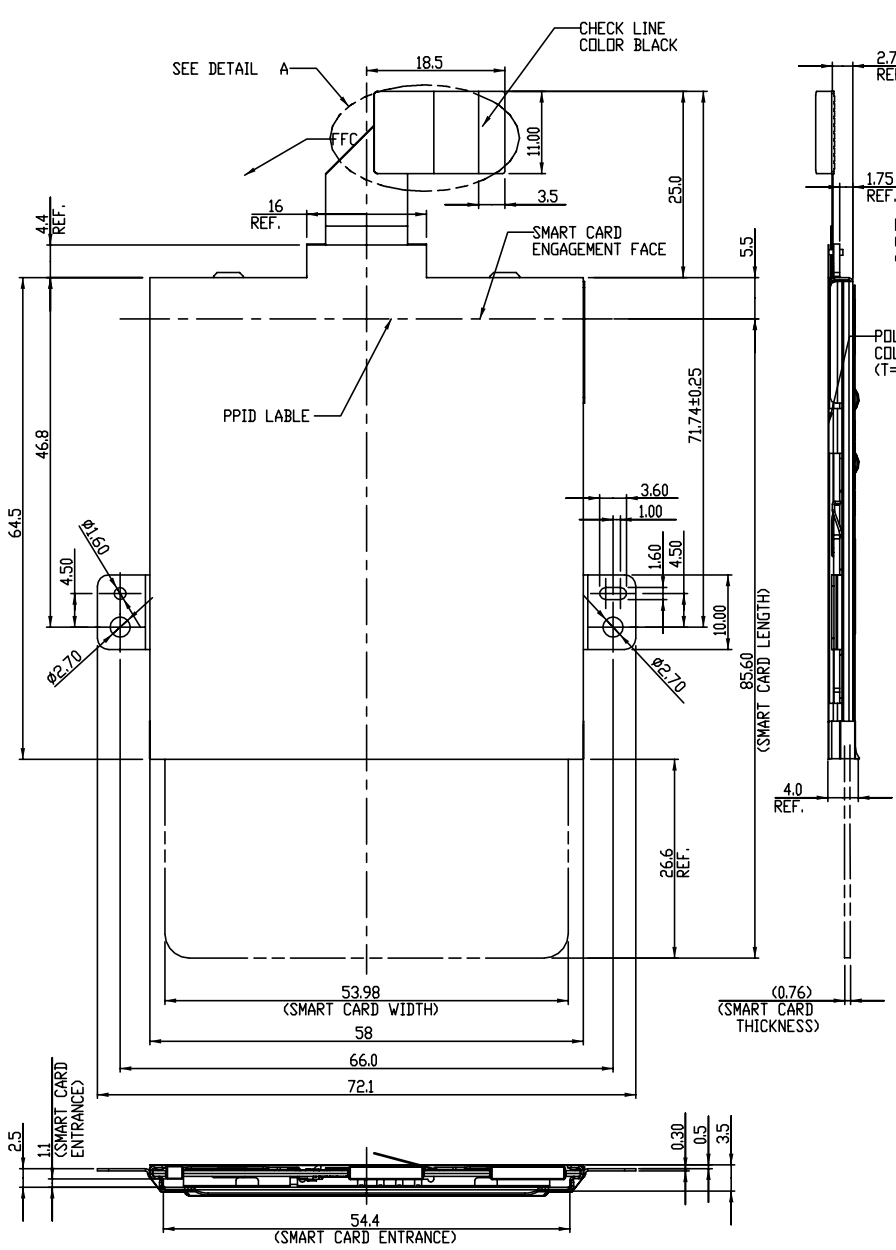
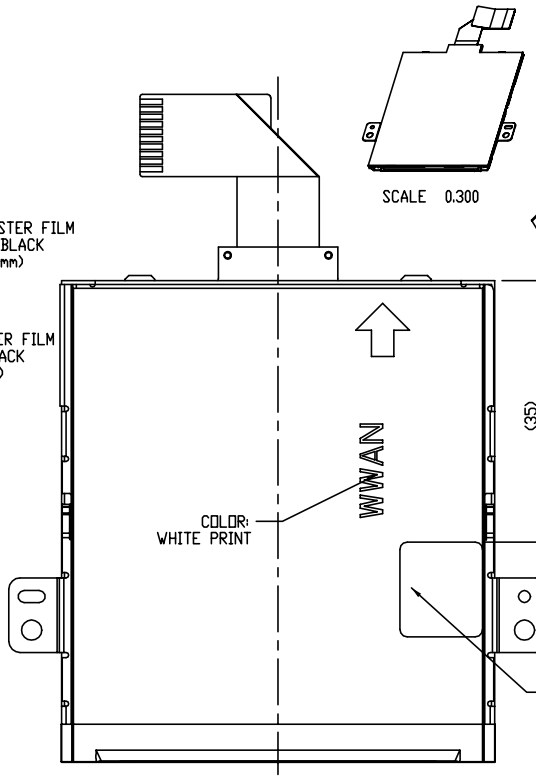
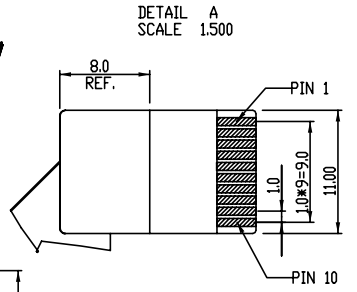
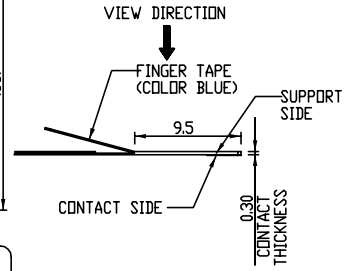
PART NUMBER
10010556-015LF









NOTES:
1. Material:
   METAL SHELL:STAINLESS STEEL, T=0.30mm
   GUIDE BLOCK:THERMOPLASTIC,UL94V-0.
   PCB: FR-4, T=0.80mm, UL94V-0.
   FFC: POLYESTER, T=0.30mm,UL20624, NO PRINTING.
   PLATING SPEC AS BELOW:
   CONTACT SIDE PLATING: Au 3 uin, Min.
   SOLDER SIDE PLATING: Matte Tin 100 uin Min.
   TERMINAL: PHOSPHOR BRONZE.
   PLATING SPEC AS BELOW:
   UNDERPLATING: Ni 50 uin Min.
   CONTACT PLATING: Au 30 uin Min.
   SOLDER TAIL: Matte TIN 75 uin Min.
2. LEAD FREE AND ROHS COMPLIANT PRODUCT.
3. CARD DETECTION SWITCH NORMALLY OPEN WITHOUT MATING CARD.
4. REFERENCE SPECIFICATION:
   PRODUCT SPEC:GS-12-231.
   PACKING SPEC:GS-14-829.

PIN NO.	ASSIGNMENT
10	SENSOR 2
9	SENSOR 1
8	RFU8
7	I/O
6	VPP
5	GND
4	RFU4
3	CLOCK
2	RESET
1	VCC

mat'l. code				surface	tolerance	projection	product family
				ISO 1302	ISO 406 ISO 1101		95
ltr	ecn	nodr	date	tolerances unless otherwise specified			title
W				angles 0±2°	linear 0.X±0.5 / 0.XX±0.30 / 0.XXX±0.10	MM	SMART CARD READER ASSEMBLY
						scale NA	
				dr A.JUANG	06/07/02		dwg no 10010556
				engr A.JUANG	06/07/02		sheet 17 of 21
				chr A.JUANG	06/07/02		size A3
				appd JENN.TSAO	06/07/02		type Product Customer Drawing

sheet index	revision sheet

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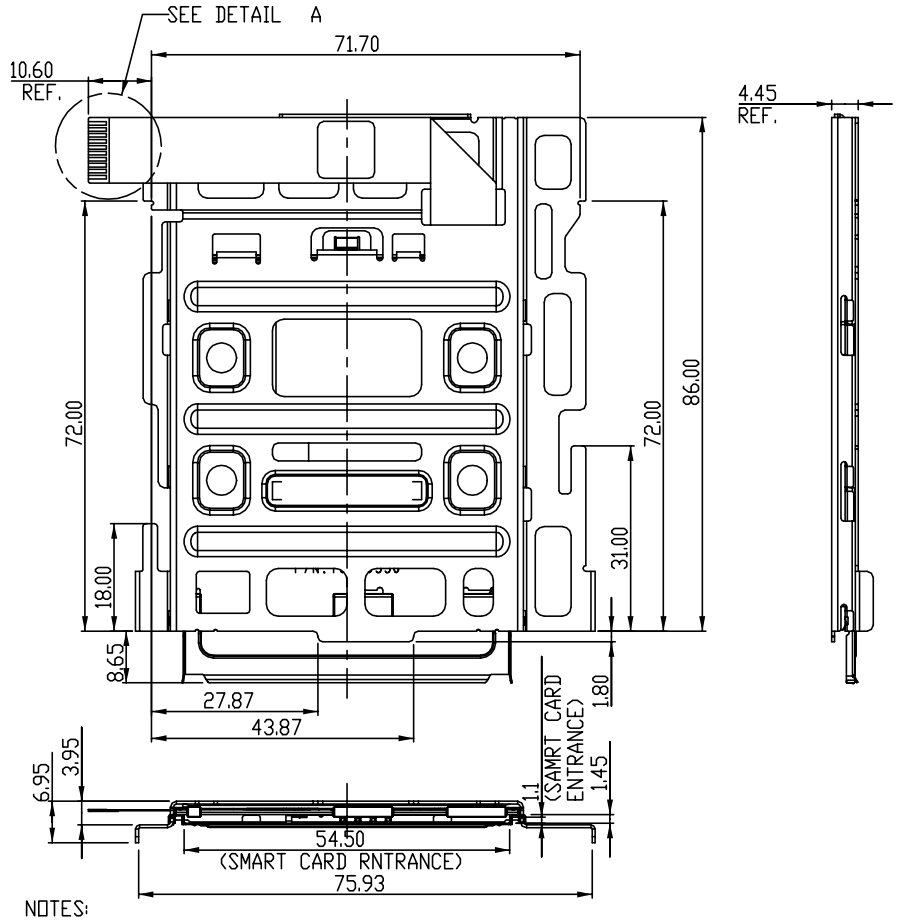
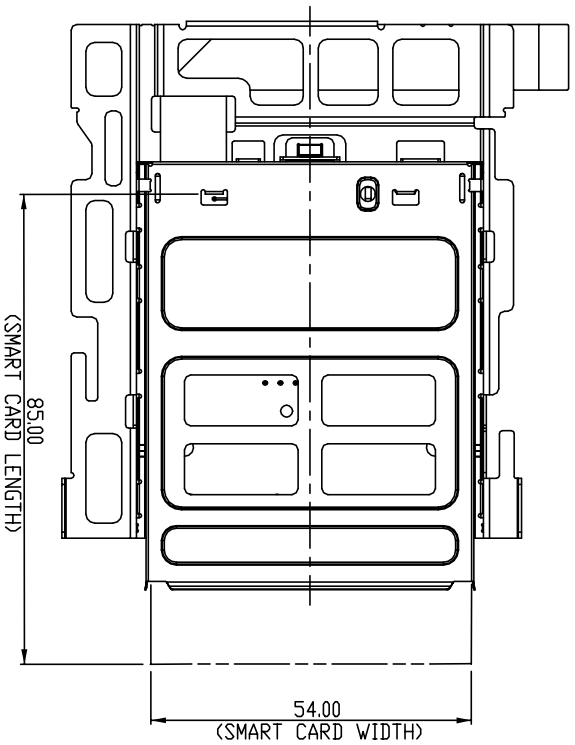
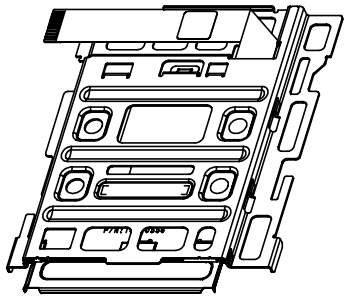
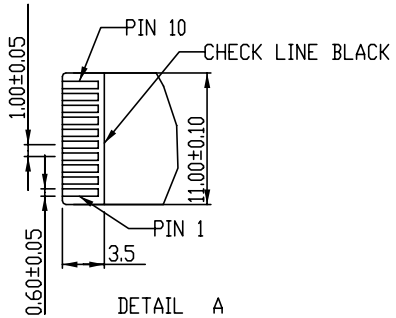
form A3

PRODUCT NO.
10010556-016LF









DETAIL A
SCALE 1.600

10	VCC	C1
9	RESET	C2
8	CLOCK	C3
7	RFU 4	C4
6	GND	C5
5	VPP	C6
4	I/O	C7
3	RFU 8	C8
2	SENSOR 2	
1	SENSOR 1	
PIN NO.	ASSIGHNMENT	PIN NO. DEFINED BY ISO-7816

NOTES:
1. Material:
   METAL SHELL:STAINLESS STEEL
   BRACKET:STELL.
   GUIDE BLOCK:THERMOPLASTIC,UL94V-O.
   PCB: FR-4, T=0.80mm, UL94V-0.
   FFC: POLYESTER, UL20624.
   PLATING SPEC AS BELOW:
   CONTACT SIDE PLATING: GOLD.
   SOLDER SIDE PLATING: Pure Tin.
   TERMINAL: COPPER ALLOY.
   PLATING SPEC AS BELOW:
   UNDERPLATING: NICKEL.
   CONTACT PLATING: GOLD.
   SOLDER TAIL: Pure TIN.
2. CARD DETECTION SWITCH NORMALLY OPEN WITHOUT MATING CARD
3. REFERENCE SPECIFICATION:
   PRODUCT SPEC.:GS-12-231.
   PACKING SPEC.:GS-14-829.

mat'l. code				surface ISO 1302	tolerance ISO 406	ISO 1101	projection	product family 95					
ltr	ecn	nodr	date	tolerances unless otherwise specified				title					
W				angles 0±2°	linear 0.X±0.5	0.XX±0.30	0.XXX±0.10	MM	scale NA	SMART CARD READER ASSEMBLY			
				dr A.JUANG 06/07/02						dwg no 10010556		sheet 18 of 21	size A3
				engr A.JUANG 06/07/02									
				chr A.JUANG 06/07/02									
				appd JENN.TSAO 06/07/02						type Product Customer Drawing			
sheet index	revision sheet												

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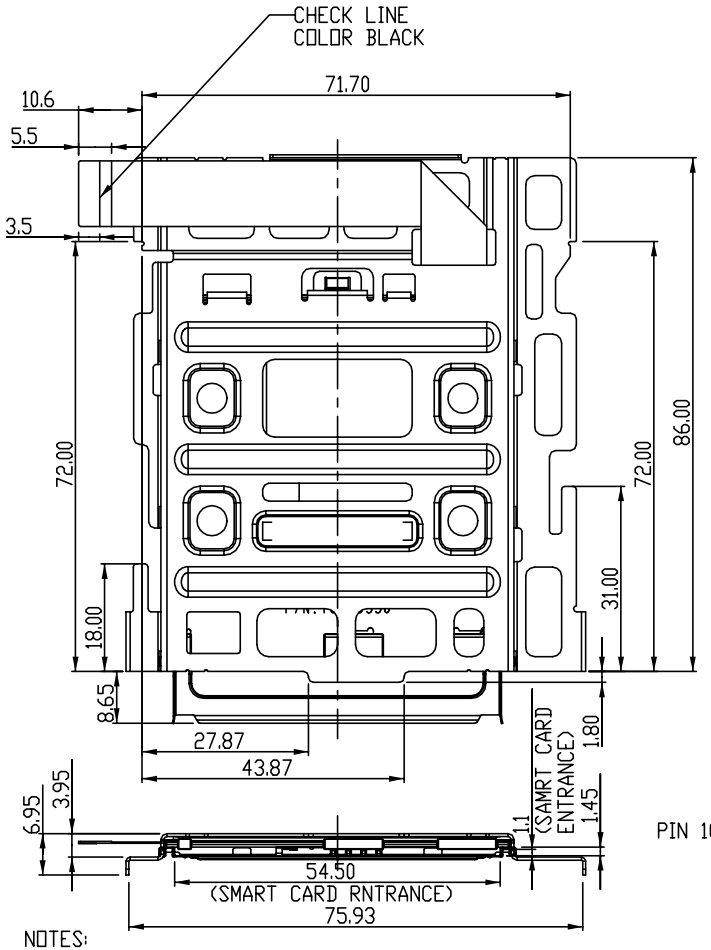
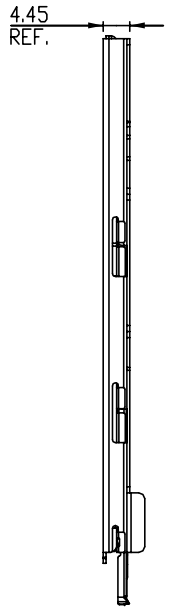
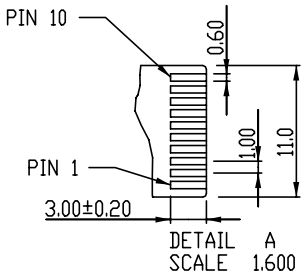
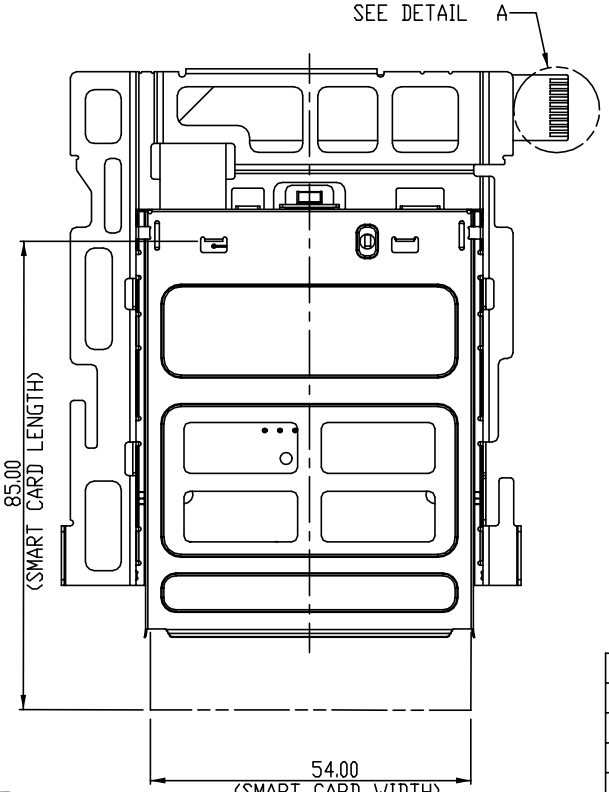
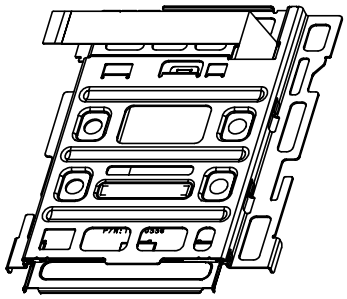
PRODUCT NO.
10010556-017LF











NOTES:
1. Material:
   METAL SHELL:STAINLESS STEEL
   BRACKET:STELL.
   GUIDE BLOCK:THERMOPLASTIC,UL94V-0.
   PCB: FR-4, T=0.80mm, UL94V-0.
   FFC: POLYESTER, UL20624.
      PLATING SPEC AS BELOW:
      CONTACT SIDE PLATING: GOLD FLASH 0.076um MIN.
      SOLDER SIDE PLATING: MATTE Tin.
   TERMINAL: COPPER ALLOY.
      PLATING SPEC AS BELOW:
      UNDERPLATING: NICKEL.
      CONTACT PLATING: GOLD 0.76um MIN.
      SOLDER TAIL: MATTE TIN.
2. CARD DETECTION SWITCH NORMALLY OPEN WITHOUT MATING CARD
3. REFERENCE SPECIFICATION:
   PRODUCT SPEC.:GS-12-231.
   PACKING SPEC.:GS-14-829.

10	VCC	C1
9	RESET	C2
8	CLOCK	C3
7	RFU 4	C4
6	GND	C5
5	VPP	C6
4	I/O	C7
3	RFU 8	C8
2	SENSOR 2	
1	SENSOR 1	
PIN NO.	ASSIGHNMENT	PIN NO. DEFINED BY ISO-7816

mat'l. code				surface ISO 1302	tolerance ISO 406 ISO 1101	projection	product family 95				
ltr	ecn	nodr	date	tolerances unless otherwise specified			title				
W				angles 0±2°	linear 0.X±0.5 / 0.XX±0.30 / 0.XXX±0.10	MM / scale NA	SMART CARD READER ASSEMBLY				
				dr A.JUANG 06/07/02			dwg no 10010556		sheet 19 of 21		size A3
				engr A.JUANG 06/07/02							
				chr A.JUANG 06/07/02							
				appd JENN.TSAO 06/07/02			type Product Customer Drawing				
sheet index	revision sheet										

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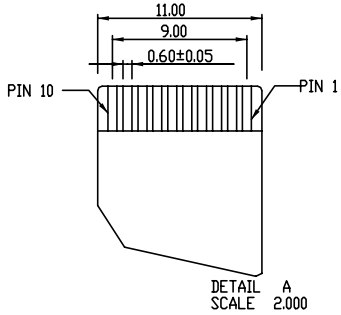
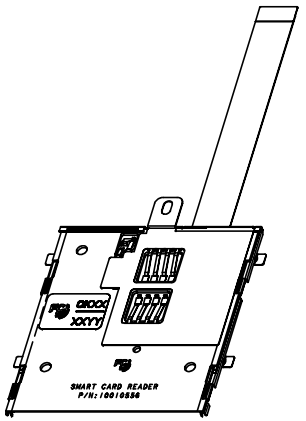
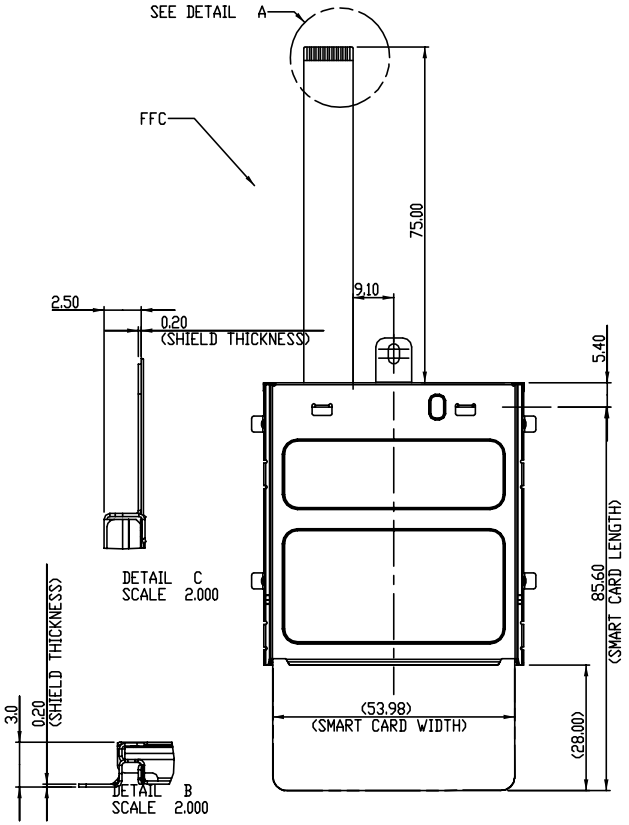
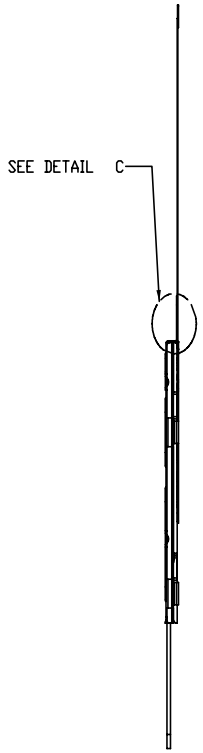
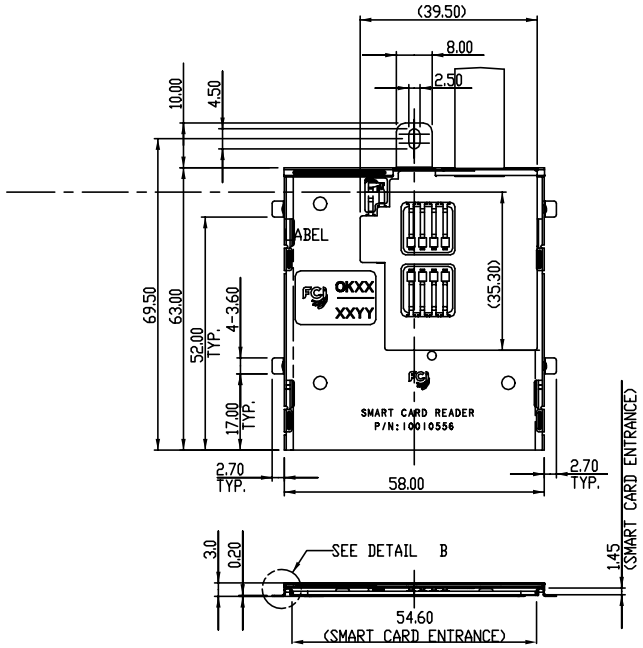
PRODUCT NO
10010556-018LF











10	RFU
9	I/O
8	Vpp
7	GND
6	Sensor 2
5	Sensor 1
4	Vcc
3	Reset
2	Clock
1	RFU
PIN NO.	ASSIGNMENT

NOTE:
1. Material:
   METAL SHELL:STAINLESS STELL, T=0.20mm
   PCB: FR-4, T=0.80mm
   TERMINAL: PHOSPHOR BRONZE.
   PLATING SPEC AS BELOW:
   ALL OVER NICKEL UNDERPLATING
   GOLD PLATING ON CONTACT SURFACE.
   MATTE TIN PLATING ON SOLDER TAIL.
   FLEXIBLE FLAT CABLE: TOTAL LENGTH=124±2mm
   PLATING SPEC AS BELOW:
   CONTACT SURFACE: TIN PLATING.
   SOLDER TAIL: TIN PLATING.
2. CARD DETECTION SWITCH NORMALLY OPEN WITHOUT MATING CARD
3. REFERENCE SPECIFICATION:
   PRODUCT SPEC. GS 12-231
   PACKING SPEC. GS 14-829

mat'l. code				surface ISO 1302		tolerance ISO 406		projection ISO 1101	product family 95		
ltr	ecn	nodr	date	tolerances unless otherwise specified					title		
W				angles	0±2°	linear	0.X±0.5	MM	SMART CARD READER ASSEMBLY		
							0.XX±0.30				
							0.XXX±0.10	scale NA			
				dr	A.JUANG		06/07/02		dwg no 10010556	sheet 20 of 21	size A3
				engr	A.JUANG		06/07/02				
				chr	A.JUANG		06/07/02				
				appd	JENN.TSAO		06/07/02		type Product Customer Drawing		
sheet index	revision sheet										

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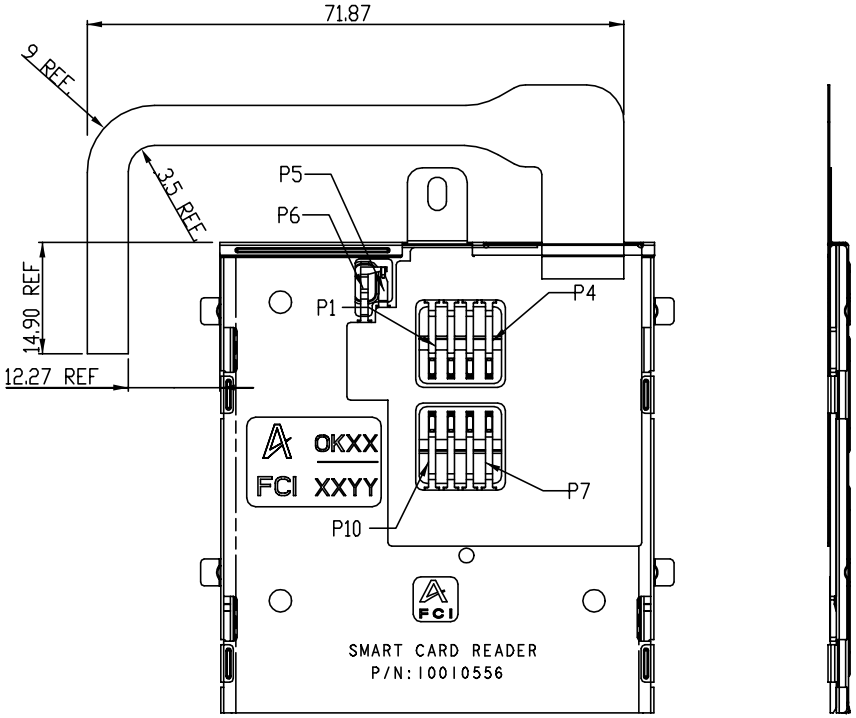
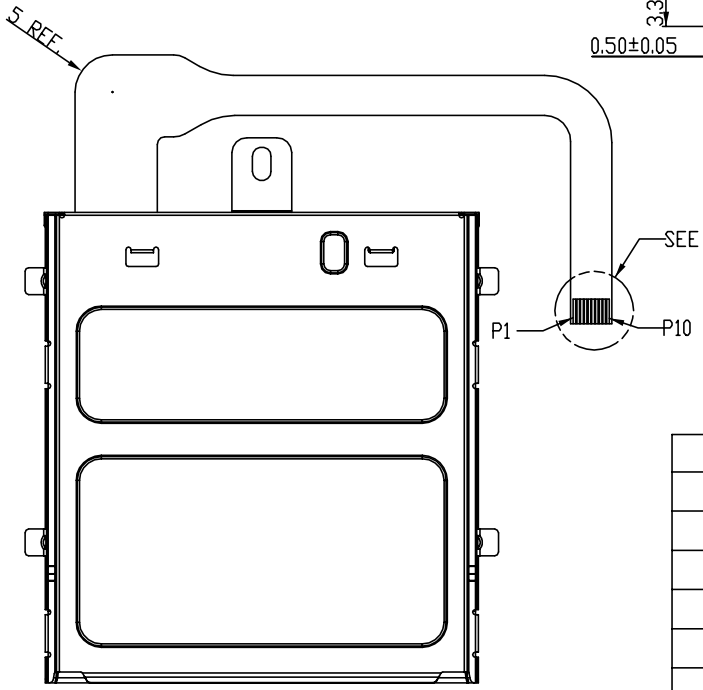
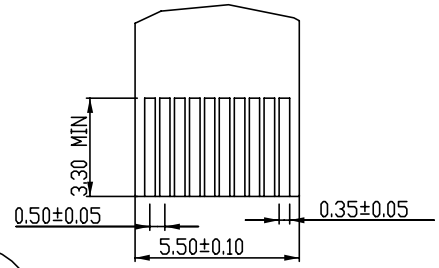
PRODUCT NO
10010556-019LF







10	RFU	10
9	I/O	9
8	VPP	8
7	GND	7
6	SENSOR 2	6
5	SENSOR 1	5
4	VCC	4
3	RESET	3
2	CLOCK	2
1	RFU	1
PIN NO.	ASSIGNMENT	FPC

NOTES:
1. MATERIAL:
   SHELL: STAINLESS STELL T=0.20MM
   PCB FR-4 T=0.80MM
   TERMINAL PHOSPHOR BRONZE
   FPC PLATING GOLD FLASH.
2. REFERENCE SPECIFICATION:
   PRODUCT SPEC. GS 12-231
   PACKING SPEC. GS 14-829

mat'l. code				surface ISO 1302	tolerance ISO 406 ISO 1101	projection	product family 95				
ltr	ecn	nodr	date	tolerances unless otherwise specified			title				
W				angles 0±2°	linear 0.X±0.5 / 0.XX±0.30 / 0.XXX±0.10	MM	SMART CARD READER ASSEMBLY				
						scale NA					
				dr A.JUANG 06/07/02			dwg no 10010556	sheet 21 of 21	size A3		
				engr A.JUANG 06/07/02							
				chr A.JUANG 06/07/02							
				appd JENN.TSAO 06/07/02			type Product Customer Drawing				
sheet index	revision sheet										

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