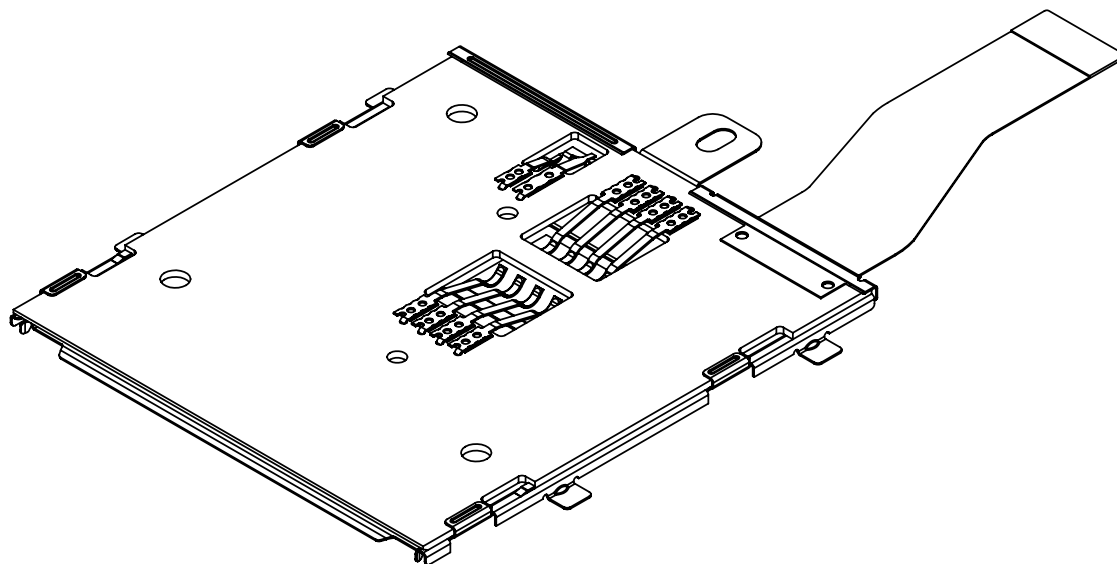




PRODUCT NO.	FPC	PACKAGING	COMPONENTS	LEAD FREE	PCB COLOR
10010556-002LF	10010559-002LF	10017475-02-002	ELEC. PARTS	YES	BLUE
10010556-003LF	10105325-001	10017475-02-009	N/A	YES	BLACK
10010556-004LF	10056226-002LF(FFC)	10017475-02-004	N/A	YES	BLUE
10010556-006LF	10058983-001LF	10017475-02-003	N/A	YES	BLACK
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

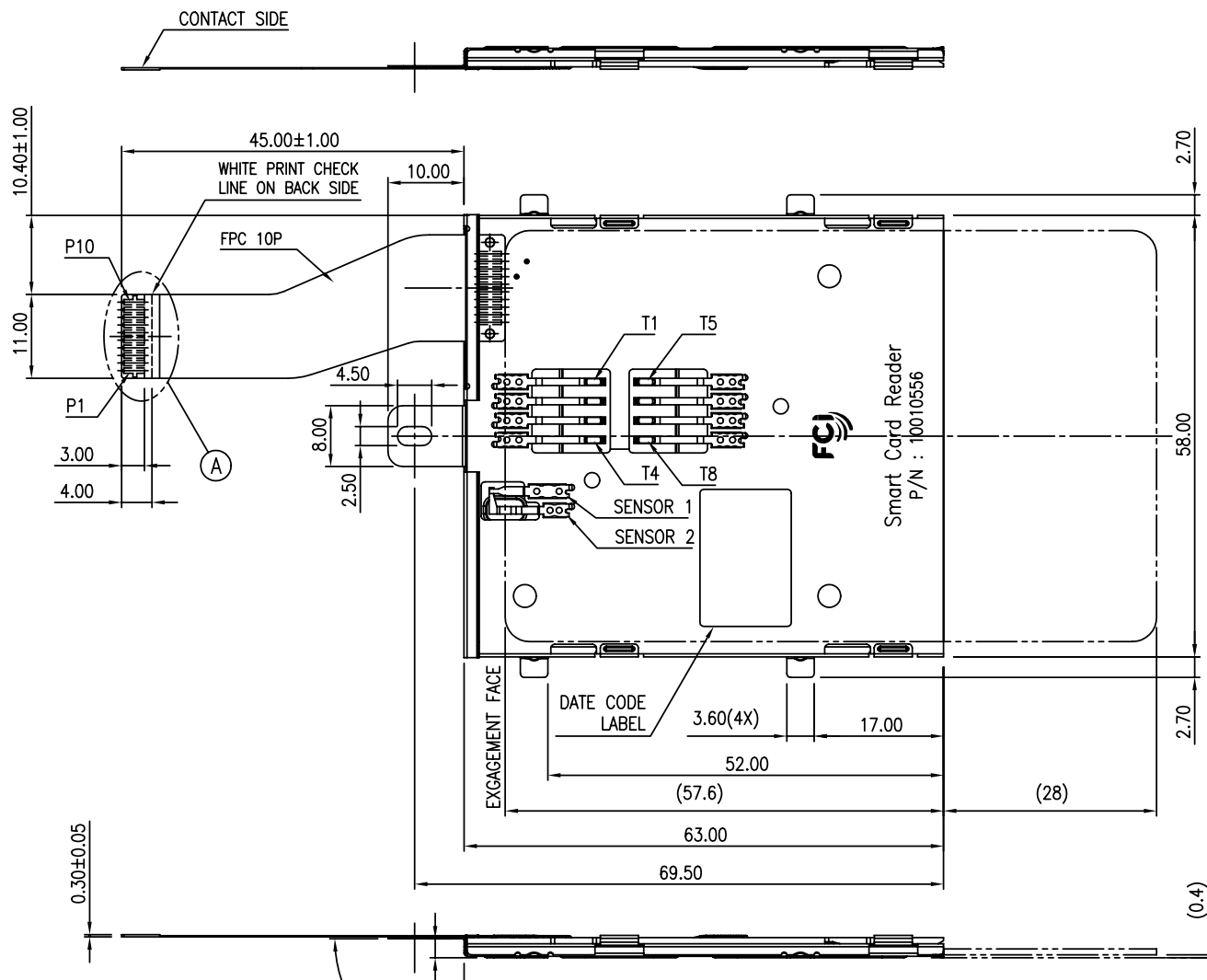


NOTE :

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.

mat'l. code				tolerances unless otherwise specified		CUSTOMER COPY		FCI		www.fciconnect.com	
ltr	ecn no	dr	date		.X ± 0.5						
R	N08-0136	SH	07/07/08	linear	.XX ± 0.30	projection					
S	N08-0212	SH	10/06/08		.XXX ± 0.10						
T	N09-0224	SH	7/15/09	angles	0° ± 2°						
U	N09-0306	SH	10/13/09	dr	A.JUANG 6/7'02	MM					
V	N10-0058	SH	3/3/10	enr	A.JUANG 6/7'02	scale					
				chr	A.JUANG 6/7'02	NONE					
				appd	JENN.TSAO 6/7'02						
sheet index	revision sheet										

PRODUCT NO.
10010556-002LF



DETAIL "A"
FPC CONTACTS

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				tolerances unless otherwise specified				CUSTOMER COPY		FCI  www.fciconnect.com	
ltr	ecn no	dr	date	linear	.X ± .5		projection 	title SMART CARD READER ASSEMBLY			
v					.XX ± .30						
					.XXX ± .10						
					0° ± 2°						
				angles			 mm	product family SMART PLUS			
				dr	A. JUANG	6/7/'02					
				enrg	A. JUANG	6/7/'02					
				chr	A. JUANG	6/7/'02					
				appd	JENN TSAO	6/7/'02	scale	NONE		A3	10010556
sheet index		revision sheet									

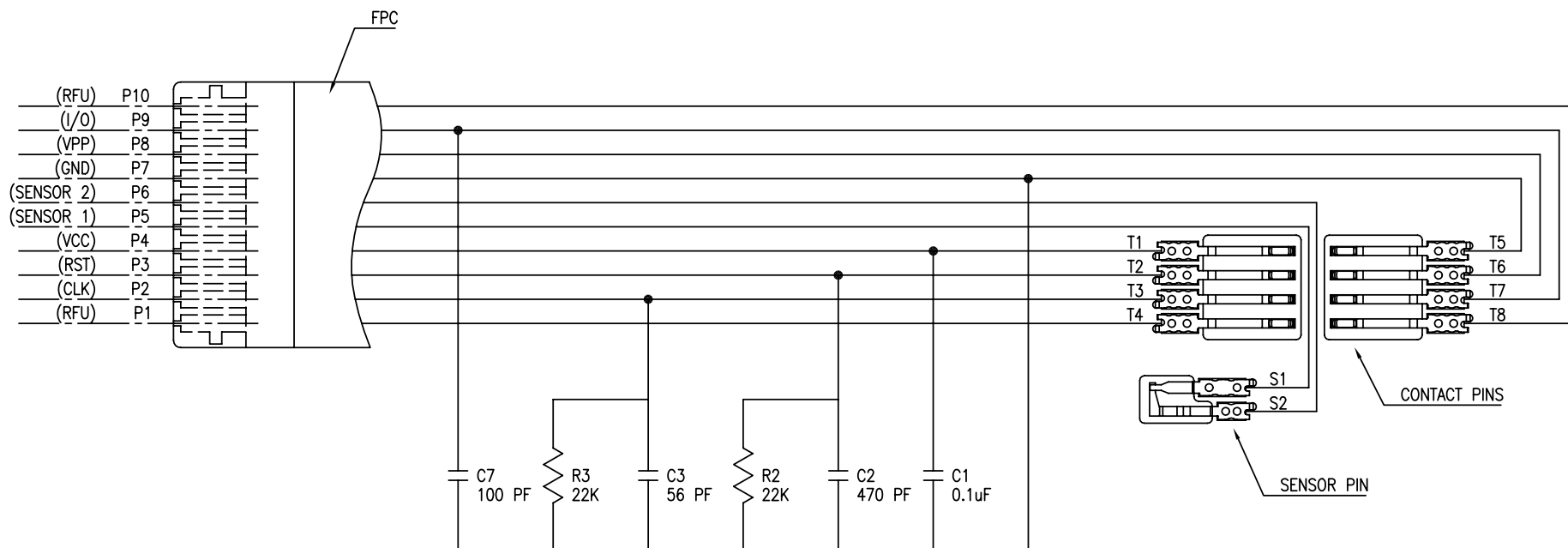
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PRODUCT NO.

10010556-002LF



mat'l. code				tolerances unless otherwise specified			CUSTOMER COPY		FCI www.fciconnect.com	
ltr	ecr no	dr	date	linear	.X ± .5		projection 	title SMART CARD READER ELEC. PASSIVE COMPONENTS CIRCUIT product family SMART PLUS		
v					.XX ± .30					
					.XXX ± .10					
				angles	0° ± 2°		 mm scale NONE	size		code
				dr	A. JUANG	6/7/'02		dwg no		—
				enrg	A. JUANG	6/7/'02		A3		10010556
				chr	A. JUANG	6/7/'02				
				appd	JENN TSAO	6/7/'02				sheet 3 of 18
sheet index	revision sheet									

1

2

3

4

PART NUMBER
0010556-003LF

FINGER TAPE
(COLOR BLUE)

FFC

CHECKING LINE (BLACK)

11.00

4.0

SMART CARD
ENGAGEMENT FACE

1.45

53.60±1.00

5.3

33.50

1.30

2.20

58.50

64.50

72.45 REF.
(SMART CARD LENGTH)

1.30

2.20

53.98 REF.
(SMART CARD WIDTH)

56.90

PPID LABEL
TYPE W

1.45

3.6

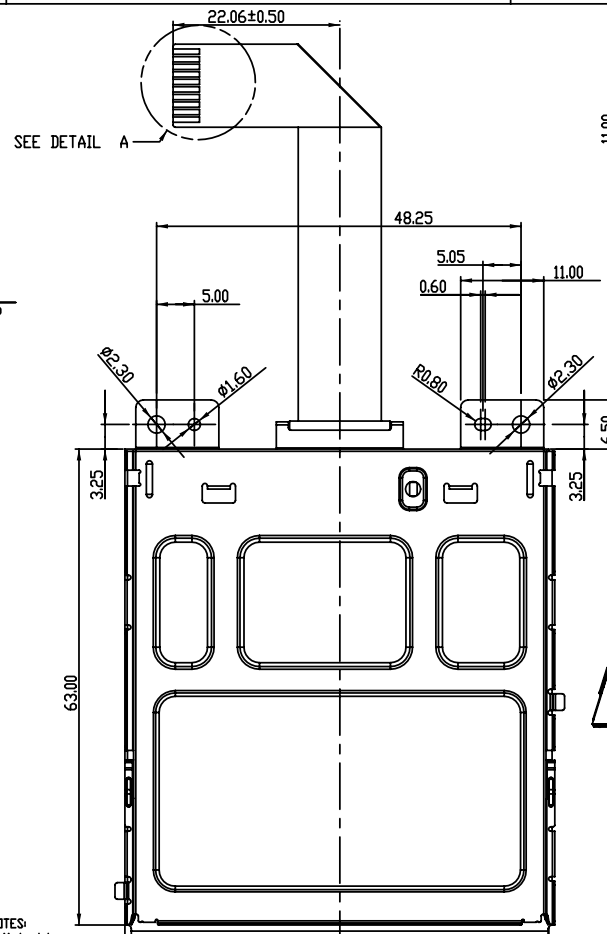
16.8

POLYESTER FILM
COLOR:BLACK
(THICKNESS:0.10mm)

3.0
(REF.)

3.1
(REF.)

(0.76)
(SMART CARD
THICKNESS)



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: Pure Tin 50uin Min.
 - 1e. TERMINAL: PHOSPHOR BRONZE, PLATING SPEC AS BELOW:
 - UNDERPLATING: Ni 100 uin Min.
 - CONTACT PLATING: Au 30 uin Min.
 - SOLDER TAIL: Pure 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.

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
PIN NO.	ASSIGNMENT	DEFINED BY ISO 7816

www.fciconnect.com

surface
x

tolerance std
x

projection
x

MM

TOLERANCES UNLESS OTHERWISE SPECIFIED

ANGULAR LINEAR

0.X ±0.25

0.XX ±0.15

0.XXX ±X

size A4

ECN *

Product family

Spec ref *

ASSEMBLY

SMART CARD READER

catalog no

* CUSTOMER DRAWING

sheet 4 of

rev	ecn no	dr	date
1	PRE	BENNY	08/21/09
2	PRE	BENNY	08/25/09
U	N09-0306	SH	10/13/09
V	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-



title

ASSEMBLY

SMART CARD READER

catalog no

* CUSTOMER DRAWING

sheet 4 of

dwg no

10010556

Rev.

V

STATUS: Released

Printed: Mar 12, 2010

3 PDM: Rev:V

STATUS: Released

4 Printed: Mar 12, 2010

1

2

3

4



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D

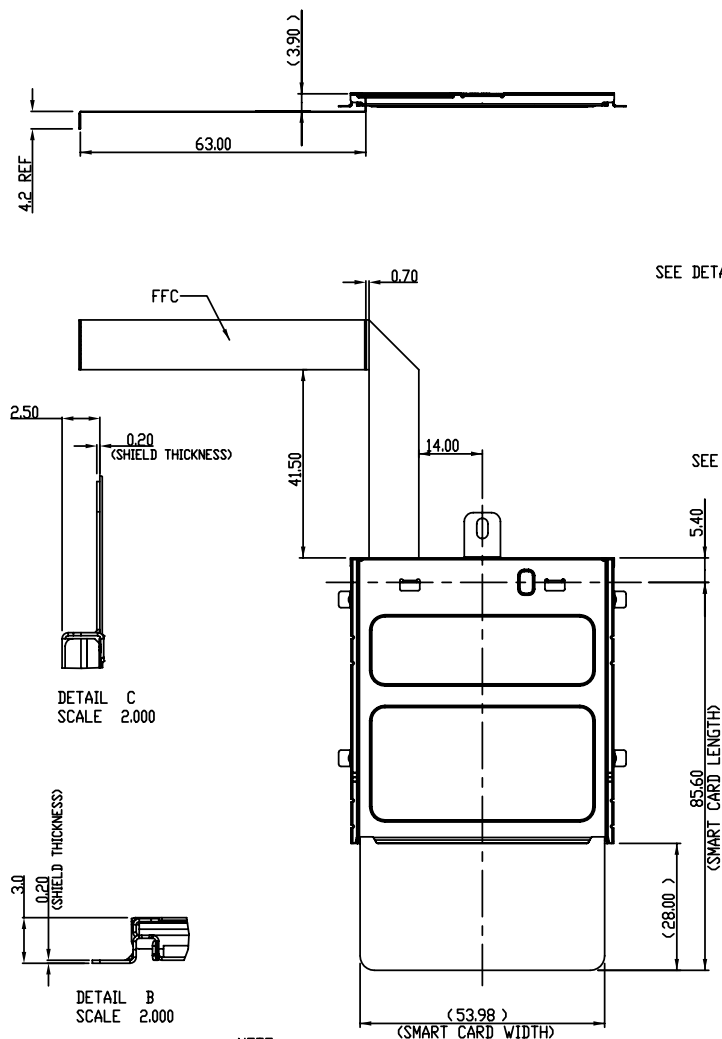
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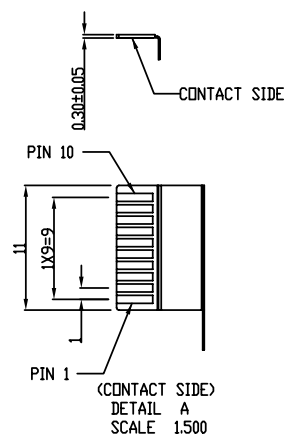


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PRODUCT NO
10010556-004LF

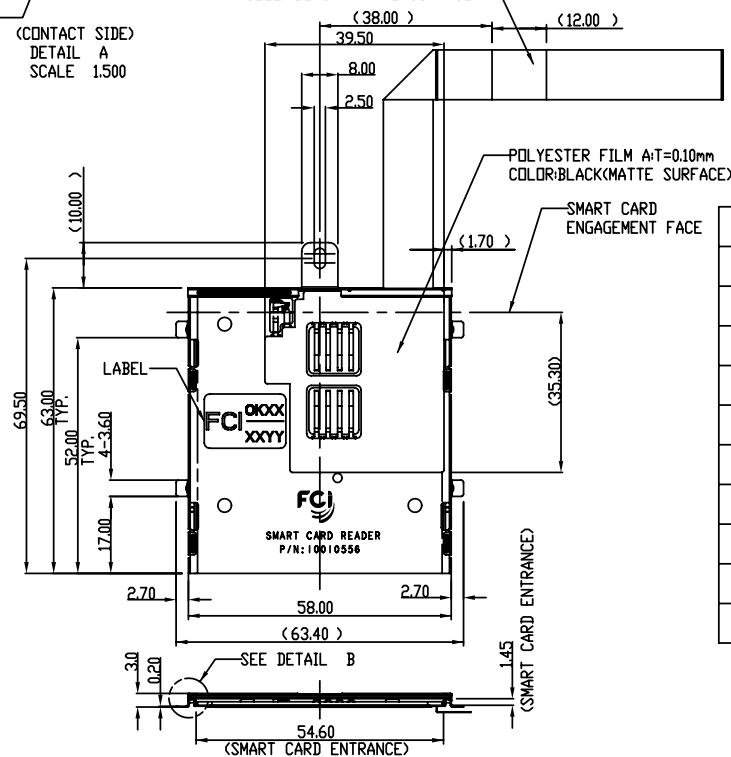


- NOTE:
1. Material:
METAL SHELL: STAINLESS STEEL, T=0.20mm
PCB: FR-4, T=0.80mm
TERMINAL: PHOSPHOR BRONZE.
PLATING SPEC AS BELOW:
ALL OVER NICKEL UNDERPLATING
GOLD PLATING ON CONTACT SURFACE.
MATTE TIN PLATING ON SOLDER TAIL.
FLEXIBLE FLAT CABLE: TOTAL LENGTH=124±2mm
PLATING SPEC AS BELOW:
CONTACT SURFACE: 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



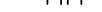
POLYESTER FILM B/T=0.10mm
COLOR: BLACK (MATTE SURFACE)

SCALE 0.400



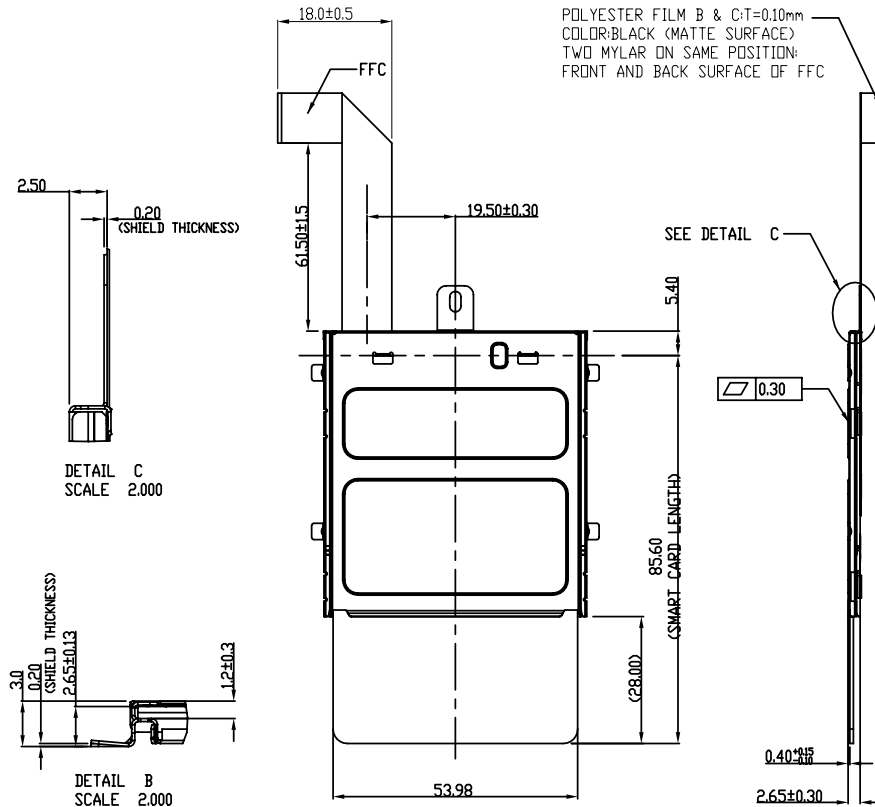
10	RFU
9	I/O
8	Vpp
7	GND
6	Sensor 2
5	Sensor 1
4	Vcc
3	Reset
2	Clock
1	RFU
PIN NO.	ASSIGNMENT

TOLERANCE UNLESS OTHERWISE SPECIFIED	
LINEAR	X.X=±0.5 X.XX=±0.3 X.XXX=±0.10
ANGLE	±0°30'

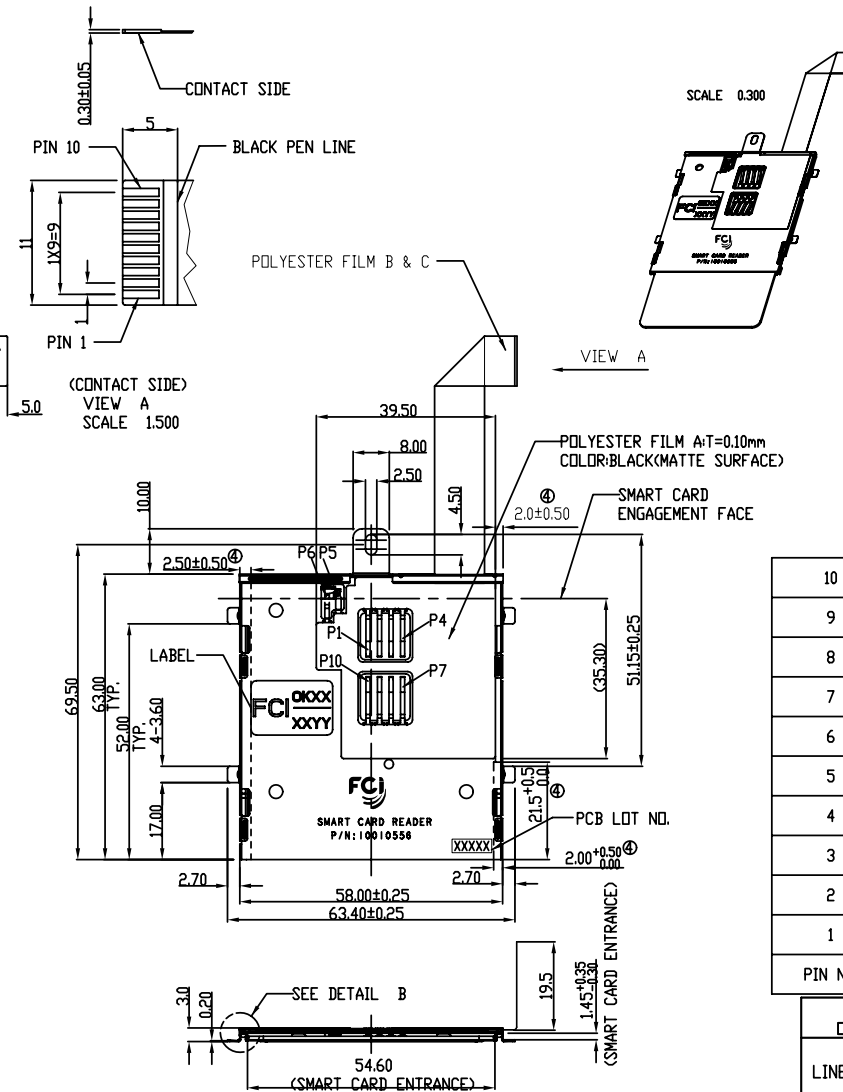
Mark with 10010556-004LF REV. In area indicated by X....				Material		Spec ref						
				Mat code		✓	tolerance	projection 	MM 			
				Heattreat								
				Plating/Finish								
rev	ecn no	dr	date	Dr	BENNY CHEN	07/06/05			size	A4	Scale	0.500
V				Eng	BENNY CHEN	07/06/05	Product family					
				Chr	Paul Wang	08/11/05	Model Name 10010556-004LF		ECN			
				Appr	Joseph Hsia	08/11/05	Model Revision		REL Level			
						title ASSEMBLY SMART CARD READER		dwg no 10010556		Rev V		
				Pro/E file		catalog no		CUSTOMER DRAWING		sheet 5 of		

4 Printed: Mar 12, 2010

PRODUCT NO
10010556-005LF



- NOTE:
1. Material:
METAL SHELL: STAINLESS STEEL, 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.



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

TOLERANCE UNLESS OTHERWISE SPECIFIED	
LINEAR	X.X $\pm$ 0.25
	X.XX $\pm$ 0.13
	X.XXX $\pm$ 0.050
ANGLE	$\pm 0^{\circ}30'$

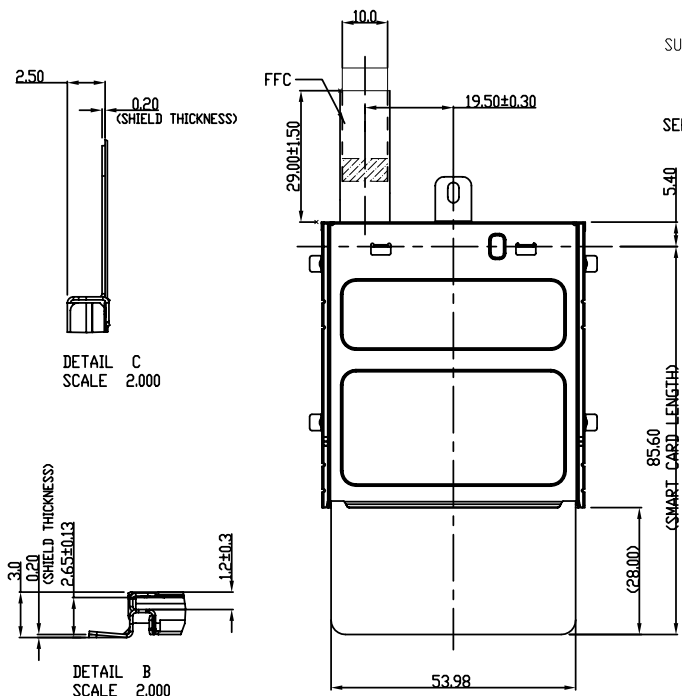
Mark with 10010556-004LF REV. In area indicated by X.....				Material		Spec ref				
				Mat code		✓	tolerance	projection 	MM 	
				Heat treat						
				Plating/Finish						
rev	ecn no	dr	date	Dr	DANIEL TAO	07/05/07				
V				Eng	DANIEL TAO	07/05/07	Product family			
				Chr	DANIEL TAO	07/05/07	Model Name 10010556-005LF		ECN	
				Appr	JOSEPH HSIA	07/05/07	Model Revision		REL Level	
					title ASSEMBLY SMART CARD READER			no dwg 10010556		Rev. V
		-	-	Pro/E file	catalog no			CUSTOMER DRAWING	sheet 8 of	

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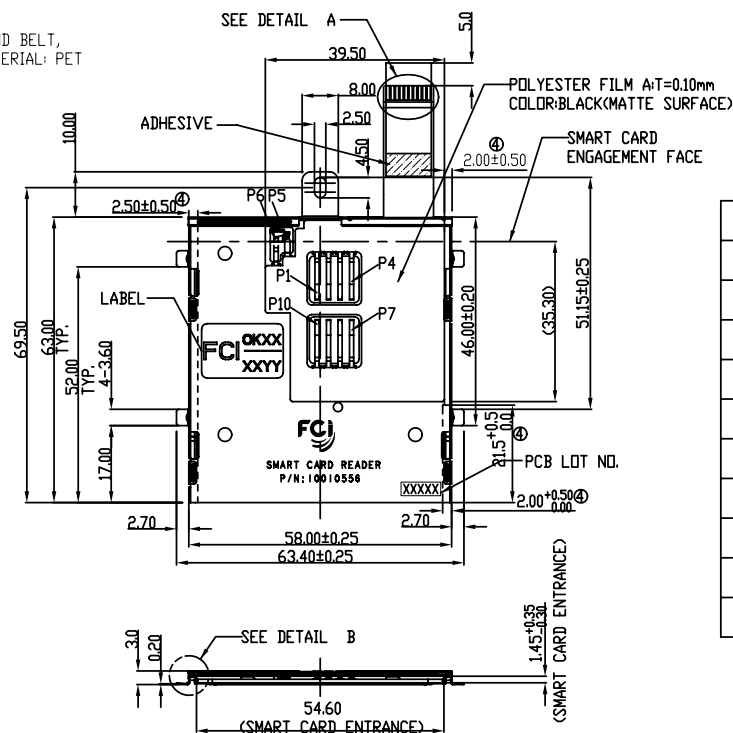
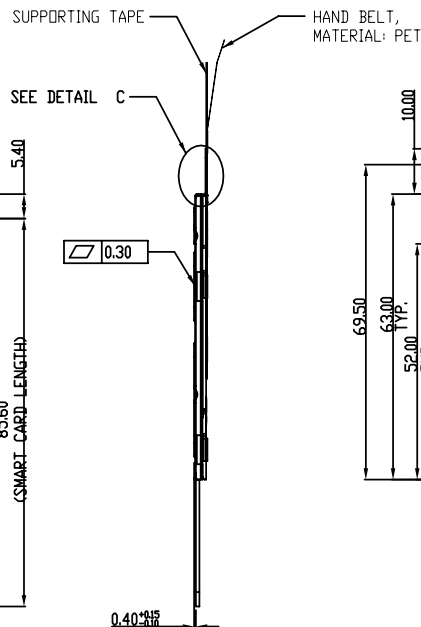
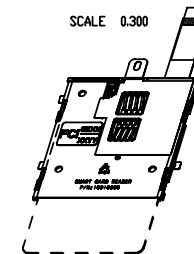
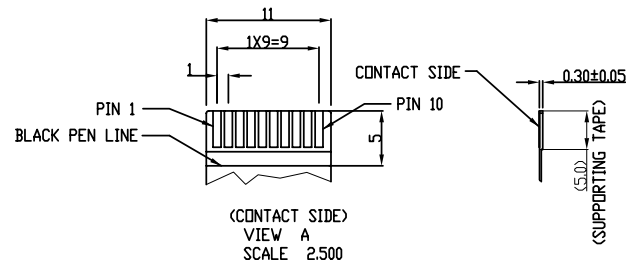


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PRODUCT NO
10010556-008LF



- NOTE:
- Material:
METAL SHELL: STAINLESS STEEL, 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.
 - CARD DETECTION SWITCH NORMALLY OPEN WITHOUT MATING CARD
 - REFERENCE SPECIFICATION:
PRODUCT SPEC. GS 12-231
PACKING SPEC. GS 14-829
- ④ THE AREA IS PROHIBITED TO PASTE THE MYLAR AND LABEL.

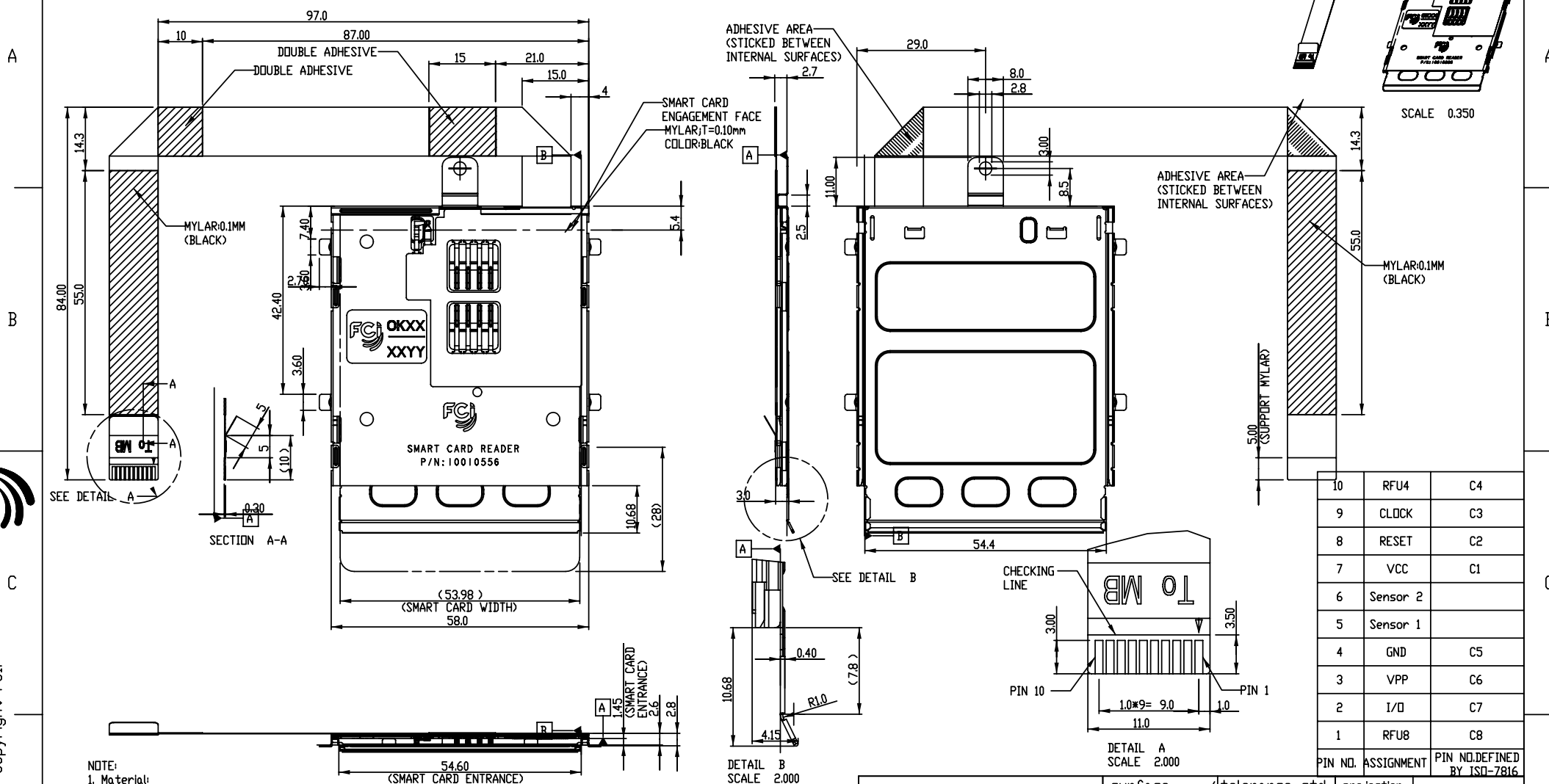


10	RFU
9	I/O
8	Vpp
7	GND
6	Sensor 2
5	Sensor 1
4	Vcc
3	Reset
2	Clock
1	RFU
PIN NO.	ASSIGNMENT

TOLERANCE UNLESS OTHERWISE SPECIFIED	
LINEAR	X.X=±0.5 X.XX=±0.3 X.XXX=±0.10
ANGLE	±0°30'

Mark with 10010556-004LF REV. In area indicated by X....				Material				Spec ref			
rev				Mat code				✓ tolerance			
ecn no				Heattreat				projection			
dr				Plating/Finish				size			
date				Dr DANIEL TAO 07/05/07				A4			
V				Eng DANIEL TAO 07/05/07				Scale			
				Chr DANIEL TAO 07/05/07				Product family			
				Appr JOSEPH HSIA 07/05/07				Model Name 10010556-008LF			
								Model Revision			
								REL Level			
				FCI				title			
								ASSEMBLY			
								SMART CARD READER			
				Pro/E file				catalog no			
								CUSTOEMER DRAWING			
								sheet 9 of			
								dwg no 10010556			
								Rev. V			

PART NUMBER
0010556-009LF



NOTE:

1. Material:

METAL SHELL: STAINLESS STEEL, 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

rev	ecn no	dr	date
P	N08-0093	SH	06/11/08
V	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

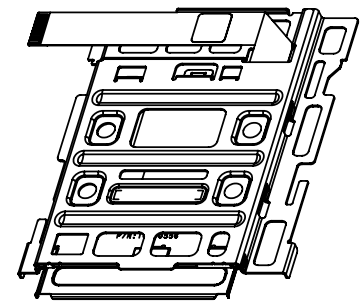
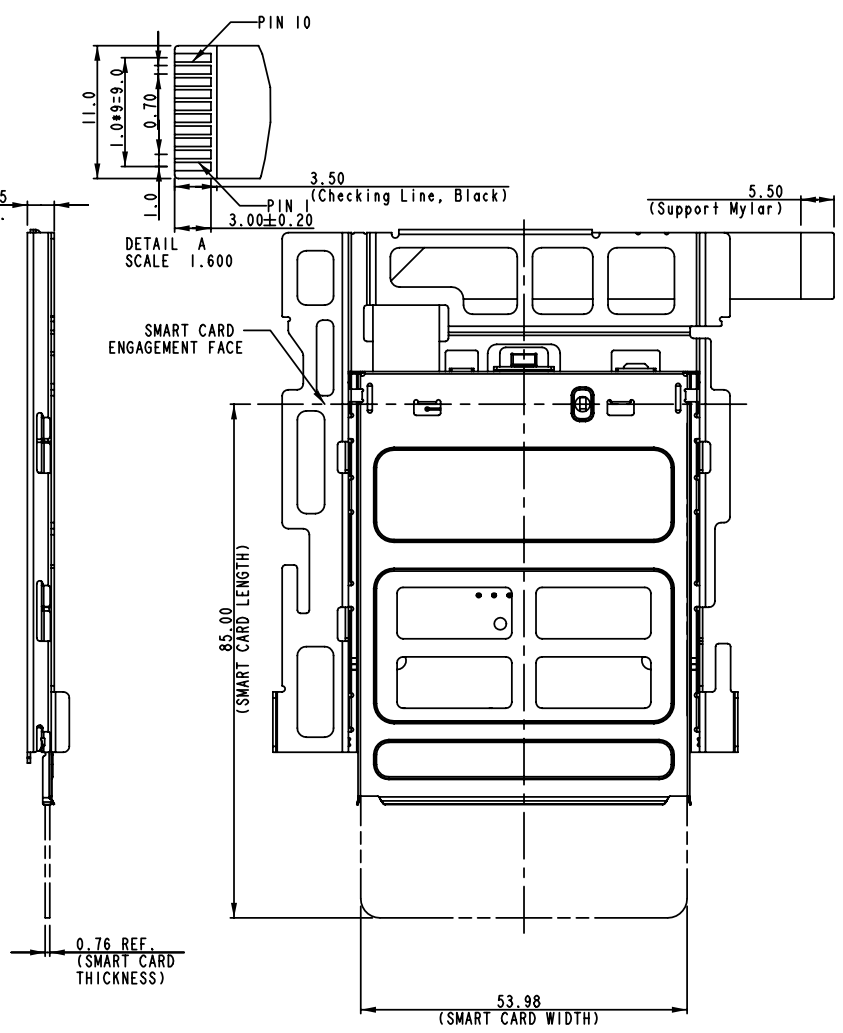
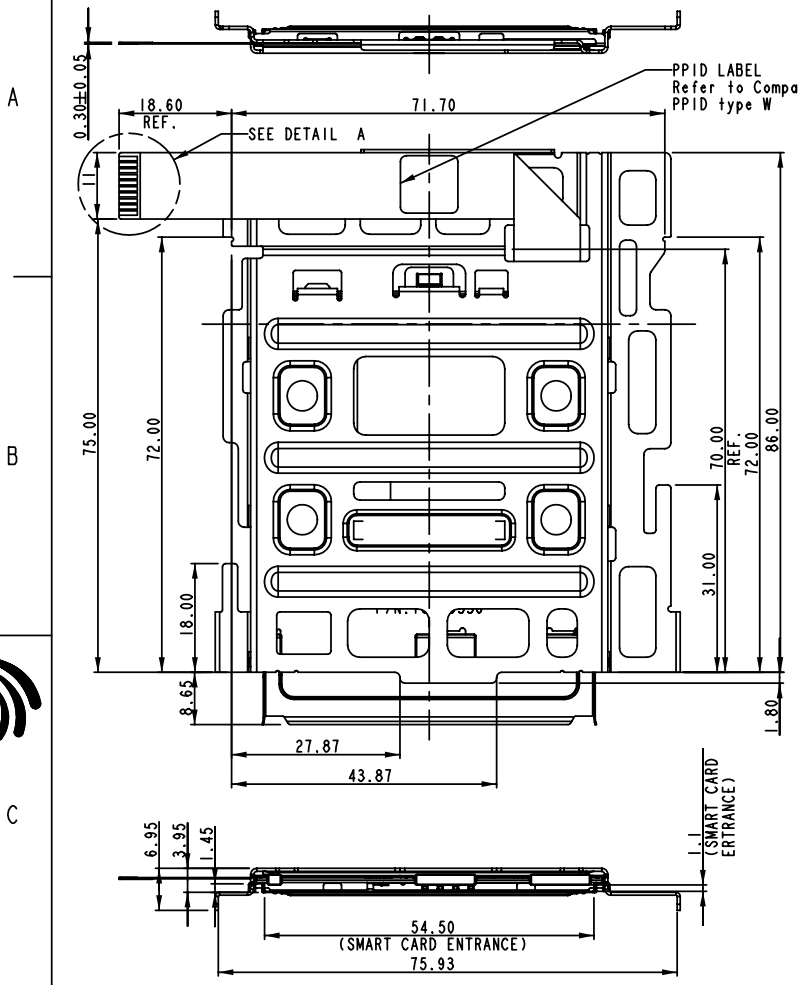
www.fciconnect.com			surface	tolerance std	projection	MM
			x	x		
			TOLERANCES UNLESS OTHERWISE SPECIFIED		size	Scale
Dr BENNY CHEN 10/24/07			ANGULAR	0.X	±0.4	0.500
Eng BENNY CHEN 10/24/07			LINEAR	0.XX	±0.25	
Chr PAUL WANG 12/15/07			0° ±X°	0.XXX	±X	
Appr JOSEPH HSIA 12/15/07			Product family		ECN	*
FCI			ASSEMBLY		Spec ref	*
title			SMART CARD READER		dwg no	10010556
catalog no			* CUSTOMER DRAWING		Rev.	V
					sheet 11 of	

PIN NO.	ASSIGNMENT	PIN NO. DEFINED BY ISO-7816
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



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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:

- Material:
 - METAL SHELL: STAINLESS STEEL
 - BRACKET: STEEL
 - 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.
- CARD DETECTION SWITCH NORMALLY OPEN WITHOUT MATING CARD
- REFERENCE SPECIFICATION:
 - PRODUCT SPEC.: GS-12-231.
 - PACKING SPEC.: GS-14-829.

rev	ecn no	dr	date
P	N08-0093	SH	06/11/08
R	N08-0136	SH	07/01/08
S	N08-0212	SH	10/06/08
V	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

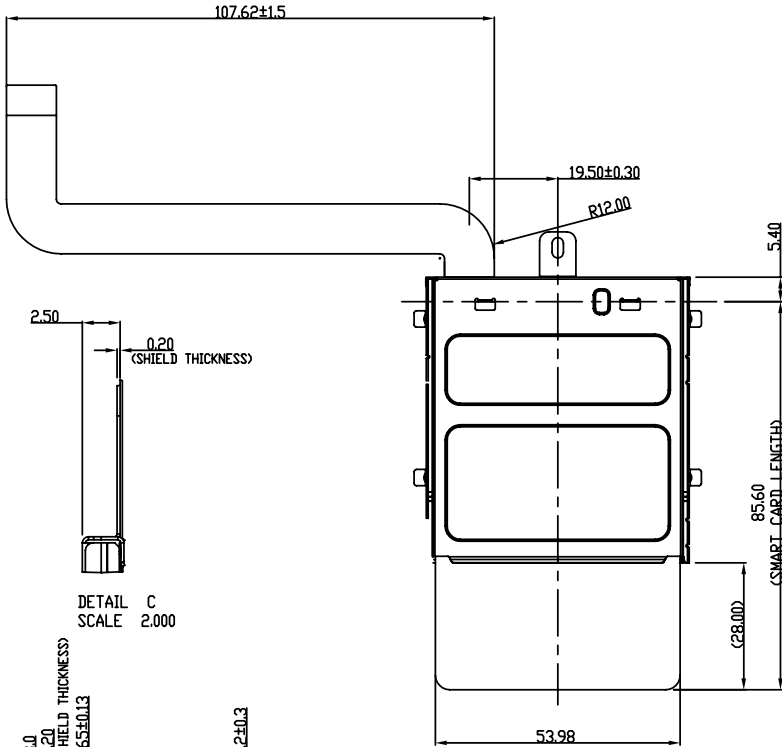
www.fciconnect.com			surface X		tolerance std X X		projection 		MM 			
			TOLERANCES UNLESS OTHERWISE SPECIFIED									
Dr	BENNY CHEN	02/05/08	ANGULAR	LINEAR	0.X		±0.3		size A4	Scale 1.000		
Eng	BENNY CHEN	02/05/08			0.XX		±.20					
Chr	PAUL WANG	02/13/08			0°.XXX		±X					
Appr	JOSEPH HSIA	02/15/08	0° ±X°				ECN		#			
			Product family					Spec ref *				
			title ASSEMBLY SMART CARD READER				drawing no 10010556			Rev. V		
			catalog no				* CUSTOMER DRAWING			sheet 12 of		



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PRODUCT NO
10010556-011LF

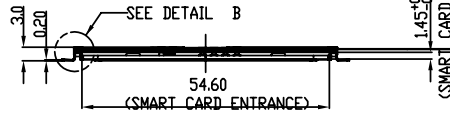
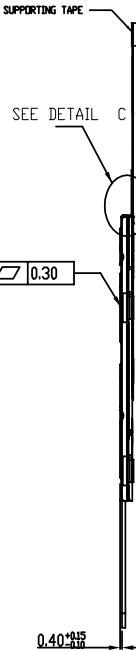
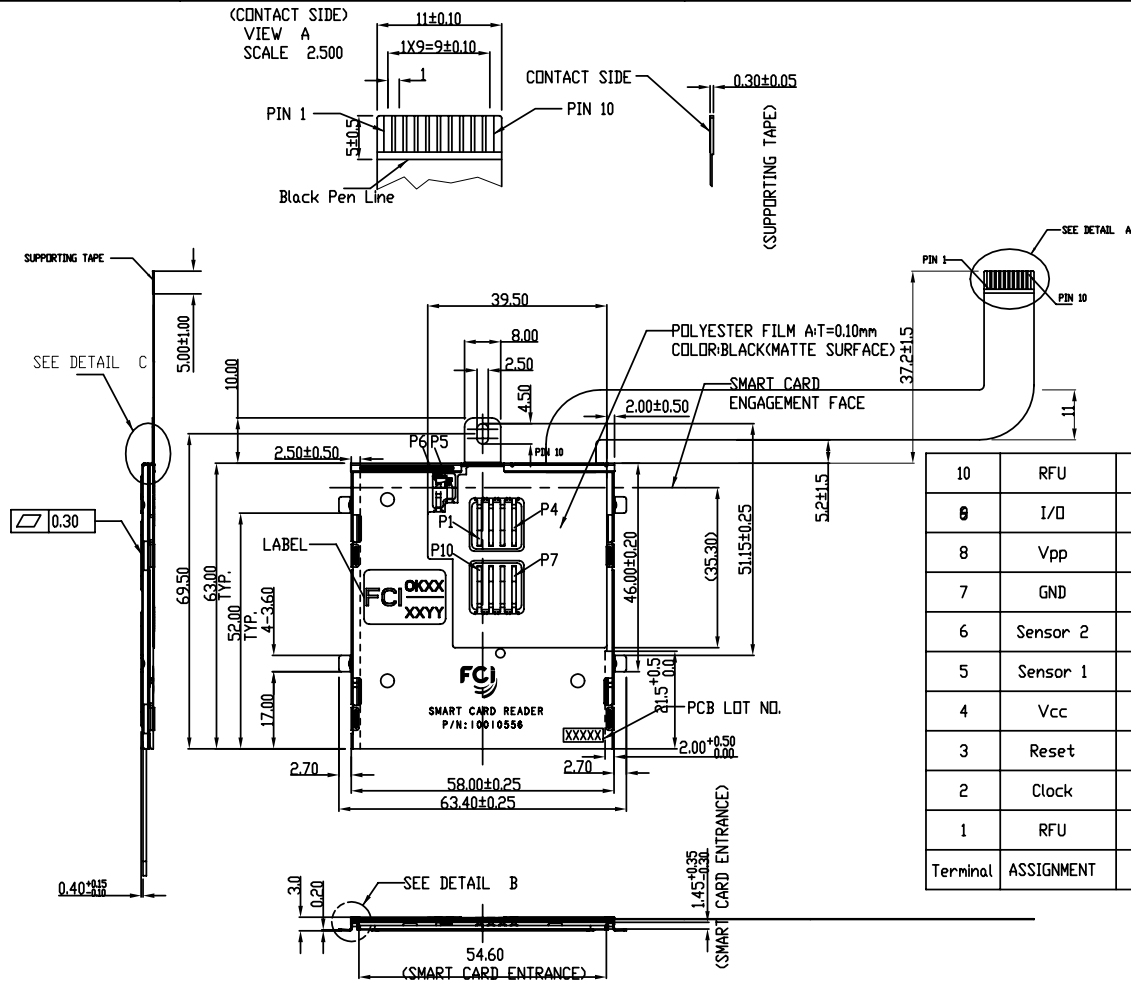


DETAIL C
SCALE 2.000

DETAIL B
SCALE 2.000

NOTE:
1. Material:
METAL SHELL: STAINLESS STEEL, 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.



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

TOLERANCE UNLESS OTHERWISE SPECIFIED	
LINEAR	X.X=±0.5 X.XX=±0.15 X.XXX=±0.050
ANGLE	±0°30'

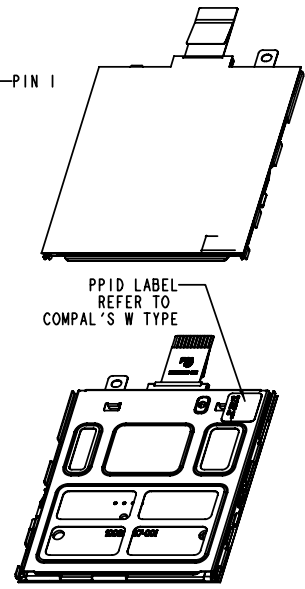
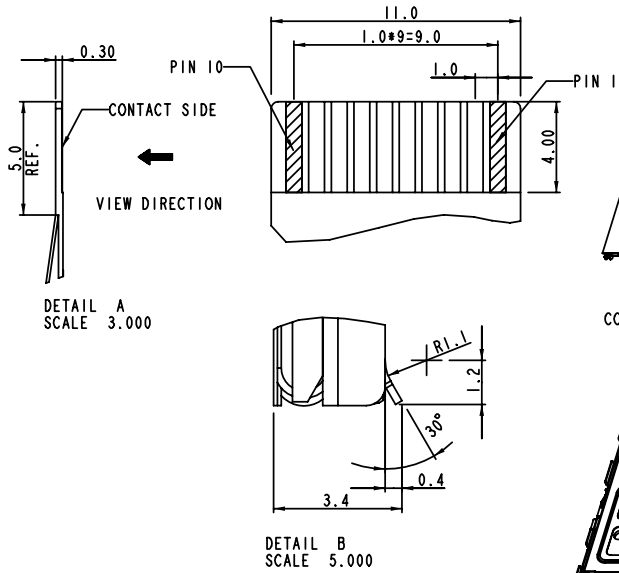
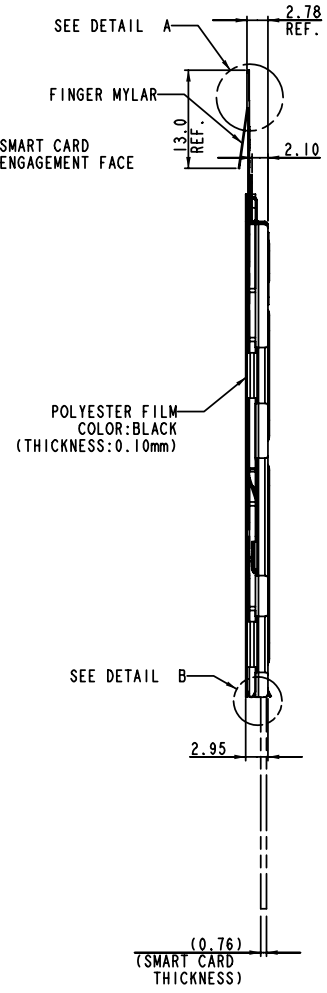
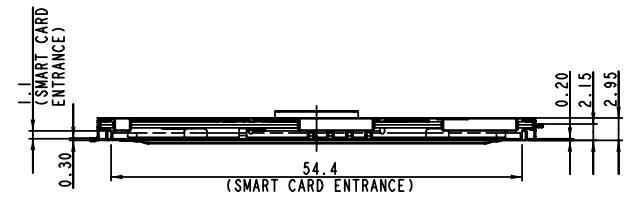
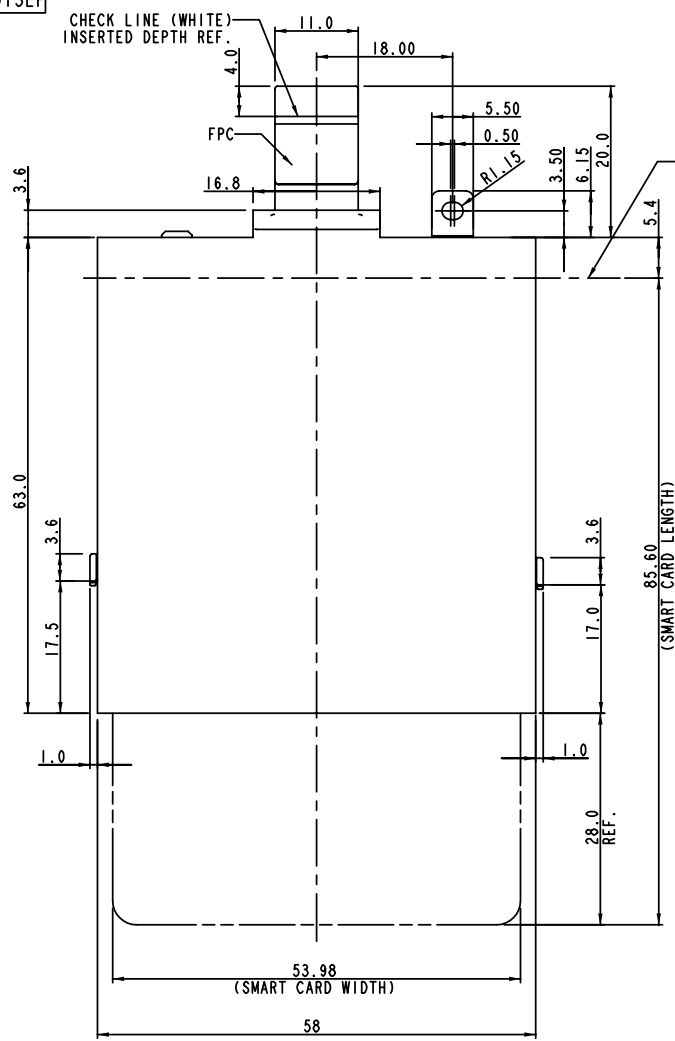
Mark with 10010556-004LF REV. In area indicated by X.....				Material			Spec ref						
				Mat code			✓	tolerance	projection 	MM 			
				Heattreat									
				Plating/Finish									
rev	ecn no	dr	date	Dr	MIAD SH	05/08/08				size	A4	Scale	0.500
N	N08-0045	SH	05/08/08	Eng	MIAD SH	05/08/08	Product family						
V				Chr	DANIEL TAO	05/08/08	Model Name			ECN			
				Appr	JOSEPH HSIA	05/08/08	Model Revision			REL Level			
						title ASSEMBLY SMART CARD READER					dwg no 10010556		Rev. V
				Pro/E file	catalog no					CUSTOMER DRAWING		sheet 13 of	

Mark with 10010556-004LF REV. In area indicated by X.....				Material				Spec ref								
				Mat code				✓		tolerance		projection 		MM 		
				Heattreat												
				Plating/Finish												
				rev	ecn no	dr	date	Dr	MIAD SH	05/08/08					size	A4
N	N08-0045	SH	05/08/08	Eng	MIAD SH	05/08/08	Product family									
V				Chr	DANIEL TAO	05/08/08	Model Name 10010556-008LF				ECN					
				Appr	JOSEPH HSIA	05/08/08	Model Revision				REL Level					
						title ASSEMBLY SMART CARD READER						no 10010556		Rev. V		
		-	-	Pro/E file		catalog no				CUSTOMER DRAWING				sheet 14 of		



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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.

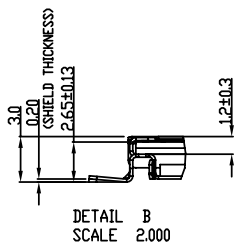
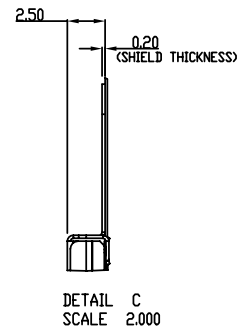
10	VCC	C 1
9	GND	C 5
8	RESET	C 2
7	VPP	C 6
6	CLOCK	C 3
5	I/O	C 7
4	RFU 4	C 4
3	RFU 8	C 8
2	SENSOR 2	
1	SENSOR 1	
PIN NO.	ASSIGNMENT	DEFINED BY ISO 7816

rev	ecn no	dr	date
R	N08-0136	BENNY	05/08/08
S	N08-0212	SH	10/06/08
V	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

www.fciconnect.com			surface X		tolerance std X X		projection 		MM 	
			TOLERANCES UNLESS OTHERWISE SPECIFIED							
Dr	BENNY CHEN	05/08/08	ANGULAR LINEAR		0.X		±0.25		size A4	Scale 0.500
Eng	BENNY CHEN	05/08/08			0.XX		±0.15			
Chr	PAUL WANG	05/19/08			0° ±3°		0.XXX ±			
Appr	JOSEPH HSIA	06/16/08	Product family						ECN *	
			title ASSEMBLY SMART CARD READER				dwg no 10010556		Rev. V	
catalog no			*				CUSTOMER DRAWING		sheet 15 of	

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PRODUCT NO	FPC
10010556-014LF	10086571-004



NOTE:

1. Material:

METAL SHELL: STAINLESS STEEL, 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.

RD DETECTION SWITCH NORMALLY OPEN WITHOUT MAINTENANCE SPECIFICATION

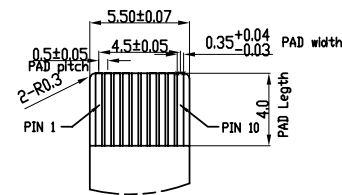
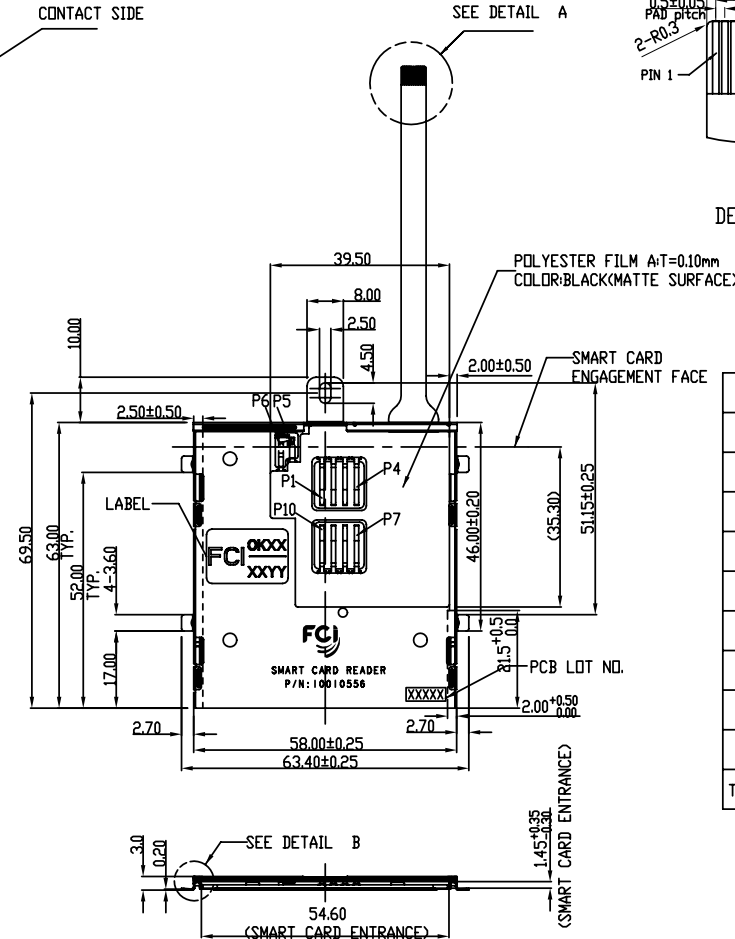
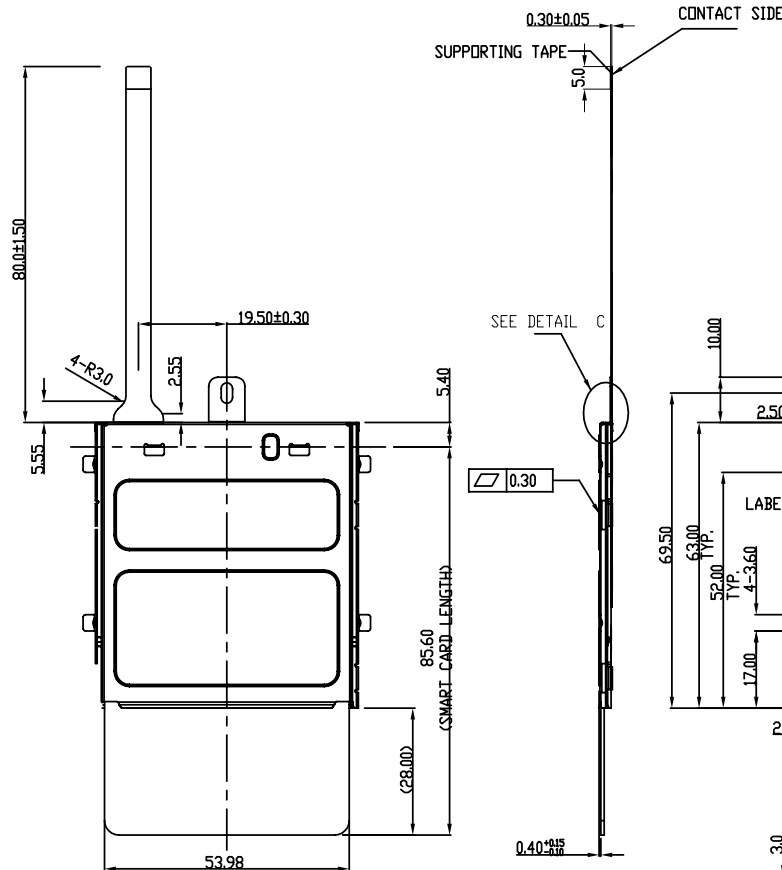
3. REFERENCE SPECIFICATION:
 PRODUCT SPEC 50-10-201

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



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

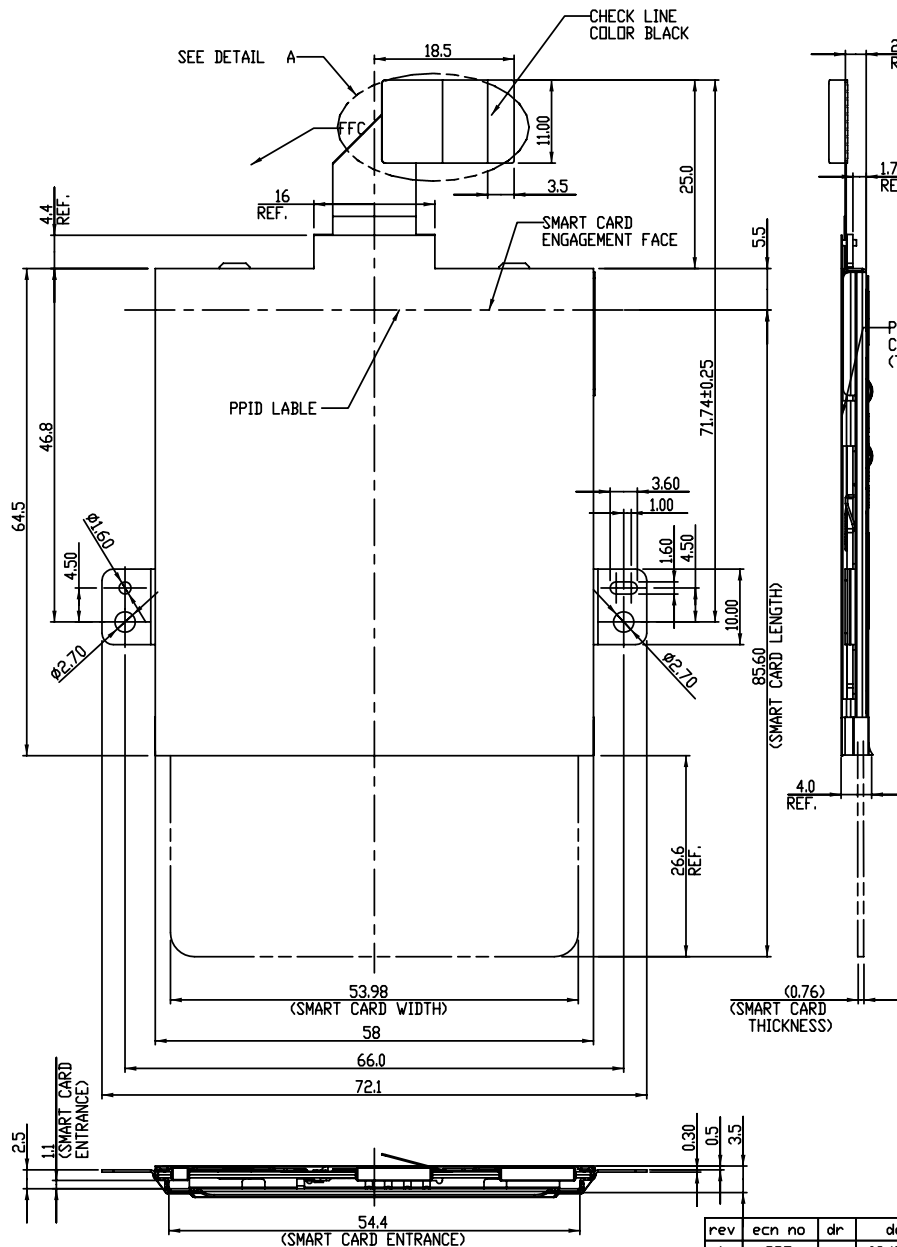
TOLERANCE UNLESS OTHERWISE SPECIFIED	
LINEAR	X.X=±0.5
	X.XX=±0.15
	X.XXX=±0.050
ANGLE	±0°30'

Mark with 10010556-014LF REV. in area indicated by X....				Material			Spec ref					
				Mat code			✓	tolerance	projection 	MM 		
				Heatreat								
				Plating/Finish								
rev	ecn no	dr	date	Dr	MIAD SH	05/08/08			size	A4	Scale	0.500
N	N08-0045	SH	05/08/08	Eng	MIAD SH	05/08/08	Product family					
P	N08-XXXX	SH	05/23/08	Chr	DANIEL TAO	05/08/08	Model Name		ECN			
R	N08-0136	SH	07/07/08	Appr	JOSEPH HSIA	05/08/08	Model Revision		REL Level			
v						title ASSEMBLY SMART CARD READER				dwg no 10010556		Rev V
		-	-	Pro/E file	catalog no				CUSTOMER DRAWING		sheet 16 of	

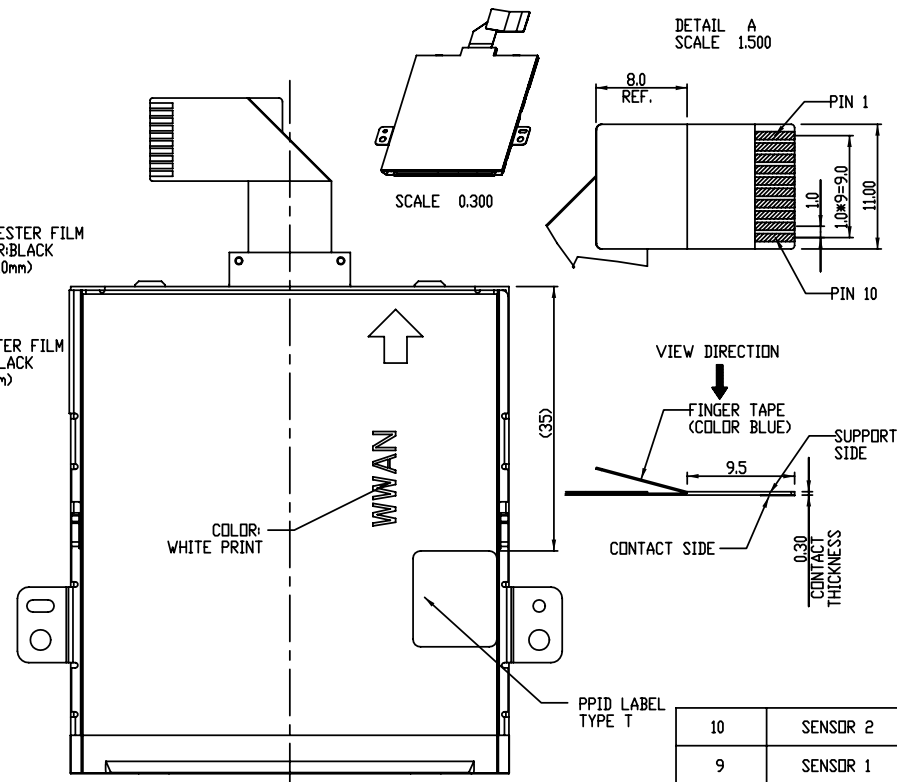


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PART NUMBER
10010556-015LF



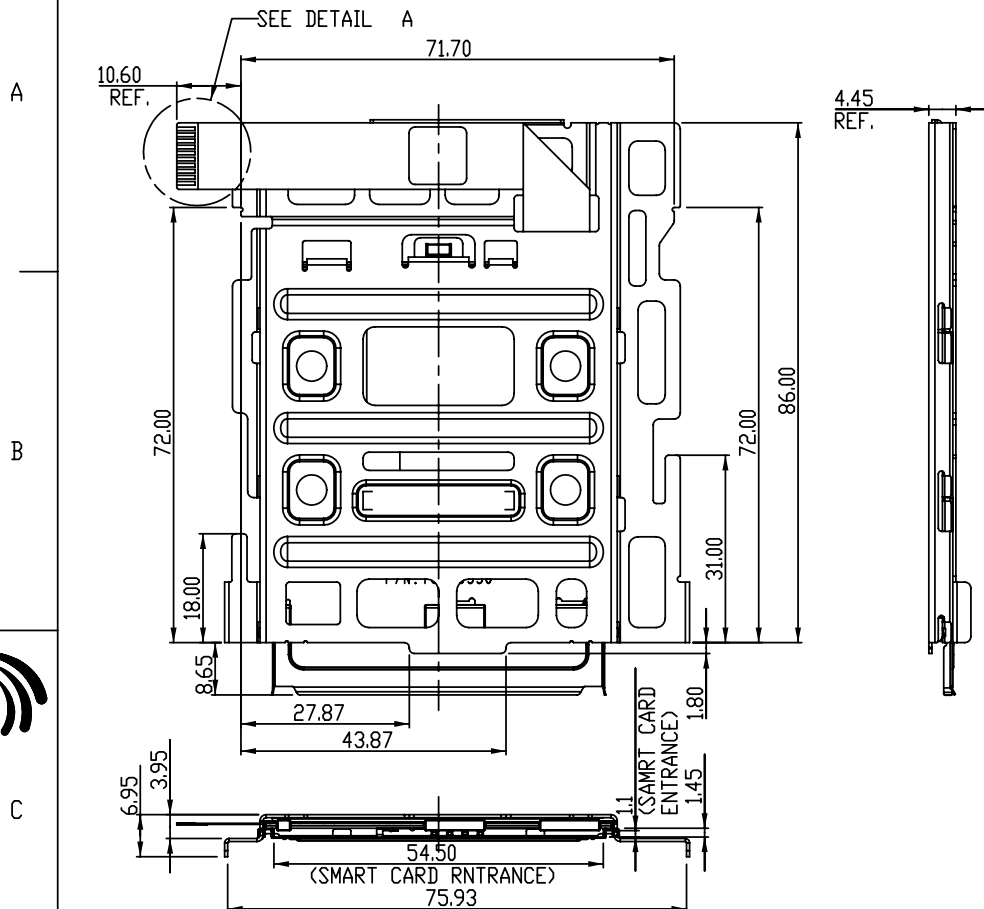
- NOTE:
- Material:
METAL SHELL: STAINLESS STEEL, T=0.30mm
GUIDE BLOCK: THERMOPLASTIC, UL94V-0
PCB: FR-4, T=0.80mm, UL94V-0
FFC: POLYESTER, T=0.30mm, UL20624, NO PRINTING.
PLATING SPEC AS BELOW:
CONTACT SIDE PLATING: Au 3 uin Min.
SOLDER SIDE PLATING: Pure Tin 100 uin Min.
TERMINAL: PHOSPHOR BRONZE.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

www.fciconnect.com			surface X		tolerance std X X		projection 		MM 			
			TOLERANCES UNLESS OTHERWISE SPECIFIED									
Dr	BENNY CHEN	04/15/09	ANGULAR		LINEAR		0.X	±0.25	size	A4	Scale	0.500
Eng	BENNY CHEN	04/15/09					0.XX	±0.15				
Chr	PAUL WANG	04/18/09	0° ±3°				0.XXX	±	ECN		*	
Appr	JOSEPH HSIA	04/20/09	Product family						Spec ref *			
			title ASSEMBLY SMART CARD READER					dwg no 10010556			Rev. V	
catalog no			*					CUSTOMER DRAWING			sheet 17 of	

PRODUCT NO.
10010556-016LF



NOTE:

1. Material:

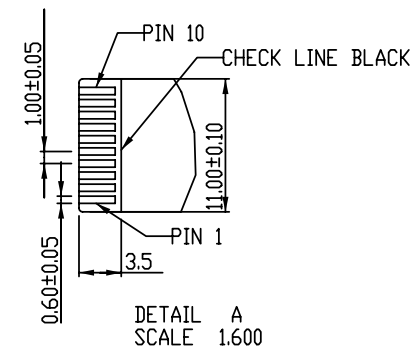
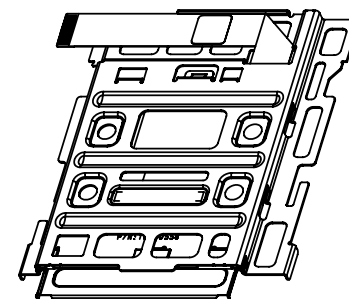
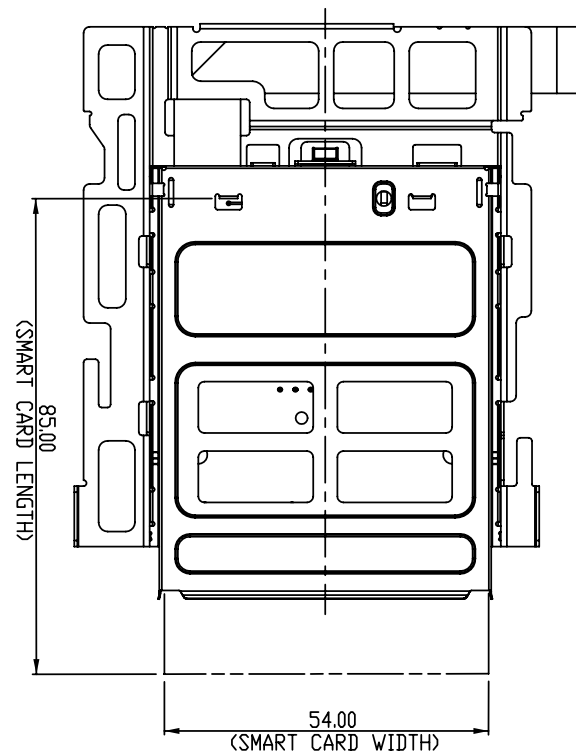
METAL SHELL: STAINLESS STEEL
BRACKET: STEEL
GUIDE BLOCK: THERMOPLASTIC, UL94V-0.
PCB: FR-4, T=0.80mm, UL94V-0.
FFC: POLYESTER, UL20624.
PLATING SPEC AS BELOW:
CONTACT SIDE PLATING: GOLD.
SOLDER SIDE PLATING: Pure Tin.
TERMINAL: COPPER ALLOY.

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.

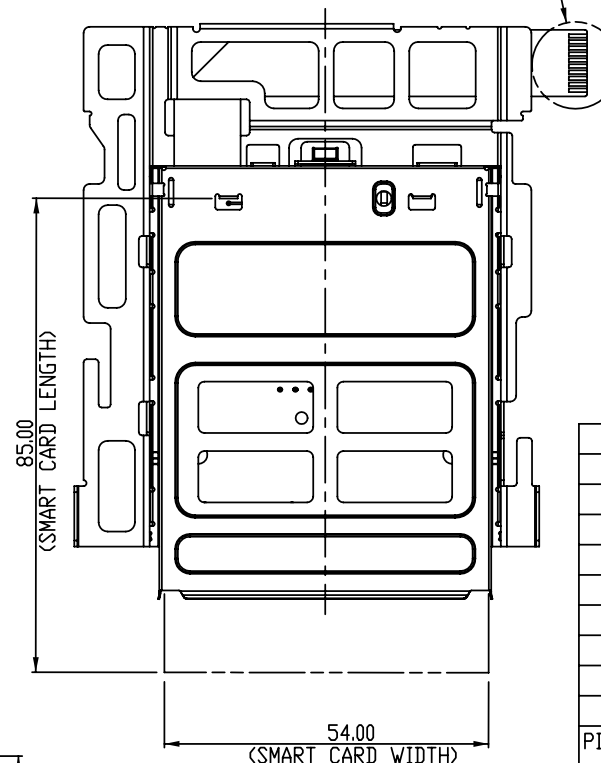


10	VCC	C1
9	RESET	C2
8	CLOCK	C3
7	RFU 4	C4
6	GND	C5
5	VPP	C6
4	I/O	C7
3	RFU 8	C8
2	SENSOR 2	
1	SENSOR 1	
PIN NO.	ASSIGNMENT	PIN NO. DEFINED BY ISO-7816

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rev	ecn no	dr	date
V	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

www.fciconnect.com			surface - 		tolerance std		projection 				
			TOLERANCES UNLESS OTHERWISE SPECIFIED								
Dr	MIAD SH	04/14/09	ANGULAR		LINEAR	0.X	±0.3	size	A4	Scale 1.000	
Eng	MIAD SH	04/14/09				0.XX	±0.2				
Chr	TAD DANIEL	04/14/09	0°	±2°		0.XXX	±0.1	ECN			
Appr	TAD DANIEL	04/14/09	Product family				-	Spec ref			
		title	SMART CARD READER					dwg no	10010556		Rev. V
			-								
			catalog no								
			-								
			CUSTOMER DRAWING								
							sheet 18 of				



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.	ASSIGNMENT	PIN NO. DEFINED BY ISO-7816

PIN 10

0.60

1.00

1.10

PIN 1

3.00±0.20

DETAIL A

SCALE 1.600

rev	ecn no	dr	date
1	N09-XXXX	SH	04/14/09
2	-	SH	07/16/09
V	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

www.fciconnect.com			surface - ☒		tolerance std		projection 						
			TOLERANCES UNLESS OTHERWISE SPECIFIED										
Dr	MIAD SH	04/14/09	ANGULAR	LINEAR	0.X	±0.3	size	A4	Scale				
Eng	MIAD SH	04/14/09			0.XX	±0.2			1.000				
Chr	TAD DANIEL	04/14/09			0.XXX	±0.1			ECN				
Appr	TAD DANIEL	04/14/09	Product family				-	Spec ref					
			title				SMART CARD READER		dwg no		10010556	Rev	V
			-										
catalog no			-				CUSTOMER DRAWING		sheet 19 of				

PRODUCT NO

10010556-018LF

A

B

C

D

A

B

C

D

SEE DETAIL A

FFC

75.00

9.10

5.40

(SMART CARD LENGTH)

(28.00)

(53.98)
(SMART CARD WIDTH)DETAIL C
SCALE 2.000DETAIL B
SCALE 2.000

NOTE:

1. Material:

METAL SHELL: STAINLESS STEEL, 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.

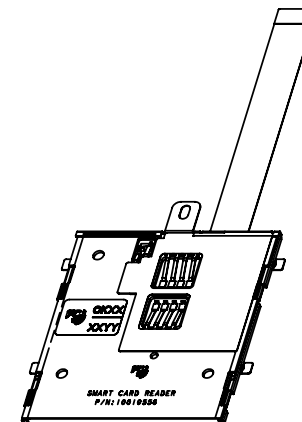
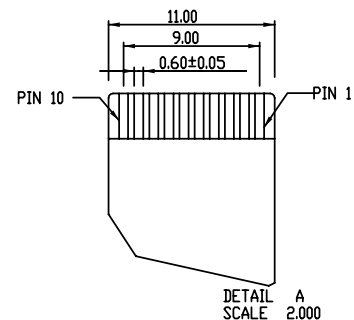
SOLDER TAIL: TIN PLATING.

2. CARD DETECTION SWITCH NORMALLY OPEN WITHOUT MATING CARD

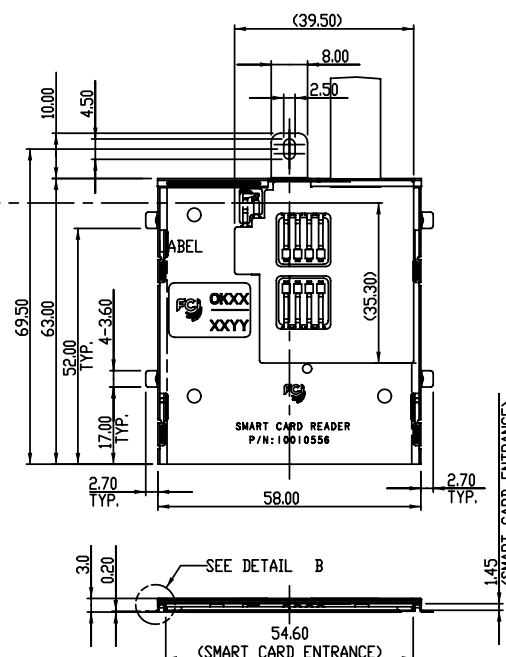
3. REFERENCE SPECIFICATION:

PRODUCT SPEC. GS 12-231

PACKING SPEC. GS 14-829



SEE DETAIL C



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

TOLERANCE UNLESS OTHERWISE SPECIFIED	
LINEAR	X.X=±0.8 X.XX=±0.3 X.XXX=±0.13
ANGLE	±3°

www.fciconnect.com			surface 		tolerance std		projection 			
			TOLERANCES UNLESS OTHERWISE SPECIFIED							
Dr	MIAD SH	09/25/09	ANGULAR  LINEAR 		0.X	±0.8	size A4	Scale 0.500		
Eng	MIAD SH	09/25/09			0.XX	±0.25				
Chr	TAD DANIEL	09/25/09			0.XXX	±0.13				
Appr			Product family					ECN		
								Spec ref		
		title SMART CARD READER				dwg no 10010556		Rev. V		
		catalog no						sheet 20 of		

