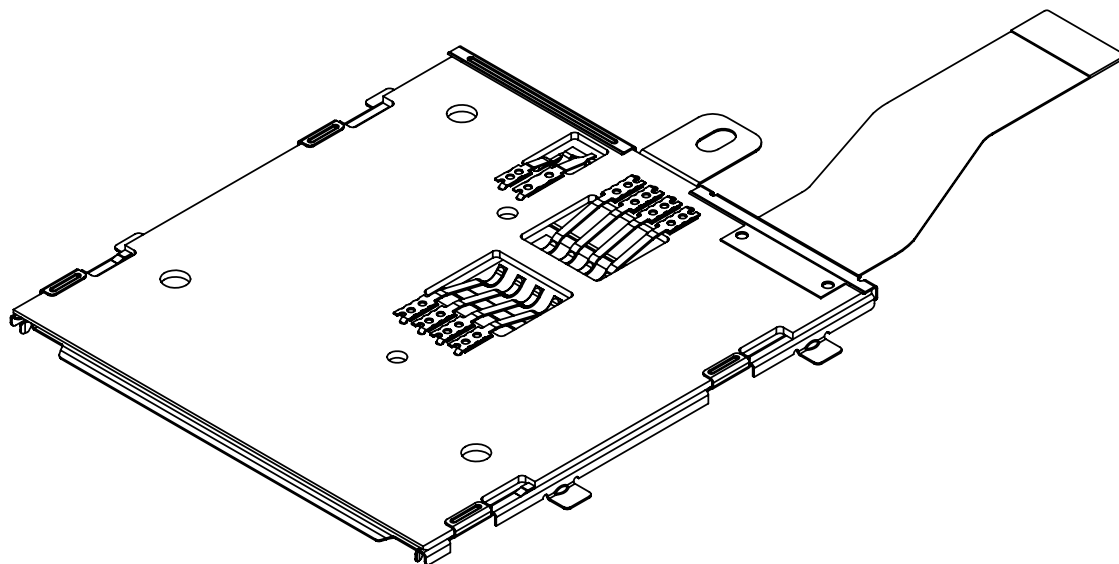




PRODUCT NO.	FPC	PACKAGING	COMPONENTS	LEAD FREE	PCB COLOR
10010556-002LF	10010559-002LF	10017475-02-002	ELEC. PARTS	YES	BLUE
10010556-003LF	10105325-001	10017475-02-009	N/A	YES	BLACK
10010556-004LF	10056226-002LF(FFC)	10017475-02-004	N/A	YES	BLUE
10010556-006LF	10058983-001LF	10017475-02-003	N/A	YES	BLACK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

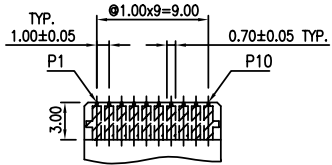
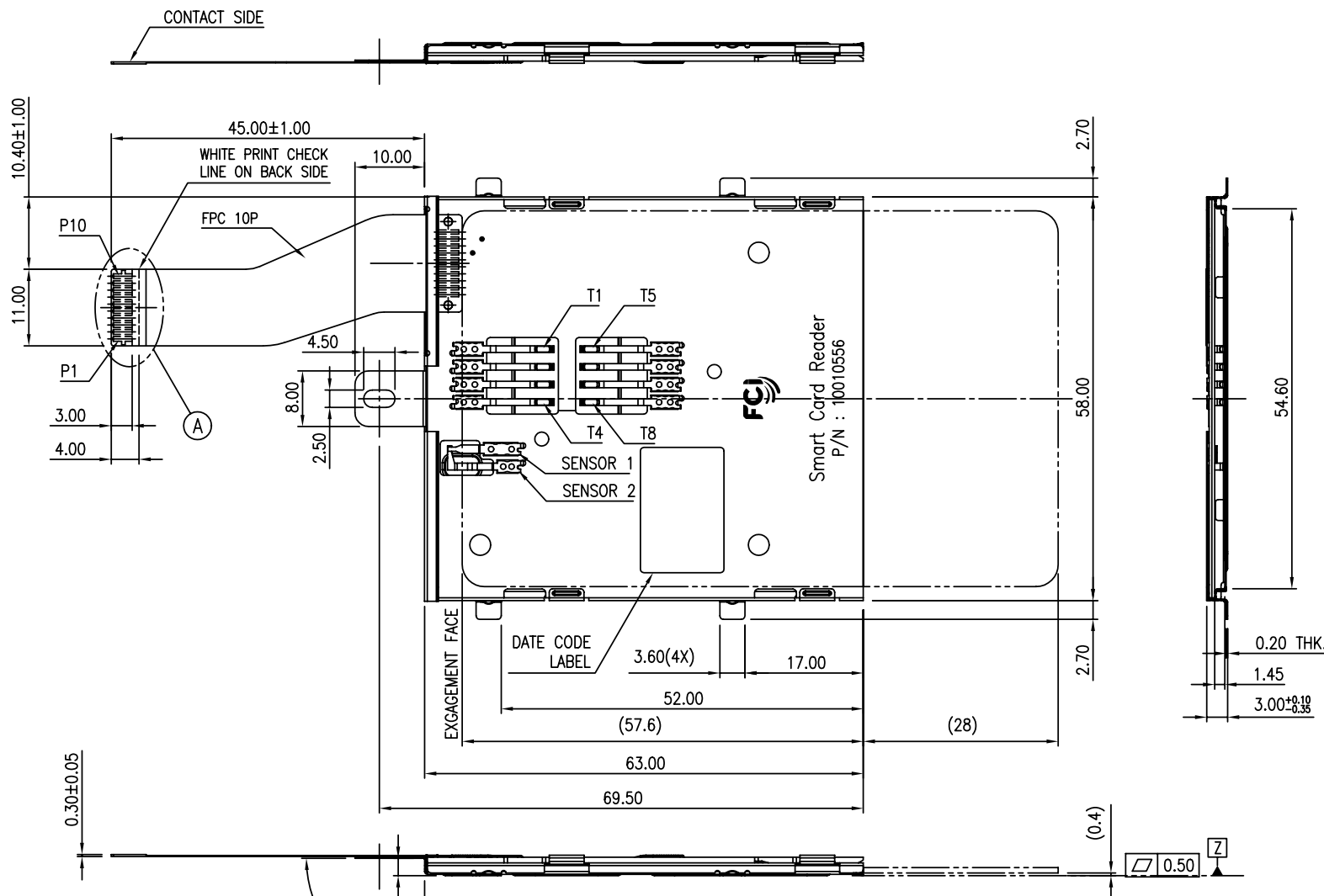


NOTE :

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.

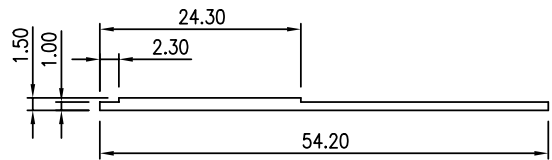
mat'l. code				tolerances unless otherwise specified			CUSTOMER COPY		FCI www.fciconnect.com				
ltr	ecn no	dr	date		.X ± 0.5		title			product family	size	dwg no	code
R	N08-0136	SH	07/07/08	linear	.XX ± 0.30								
S	N08-0212	SH	10/06/08		.XXX ± 0.10								
T	N09-0224	SH	7/15/09	angles	0° ± 2°								
U	N09-0306	SH	10/13/09	dr	A.JUANG	6/7'02					95		
V	N10-0058	SH	3/3/10	enrg	A.JUANG	6/7'02							
				chr	A.JUANG	6/7'02							
				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

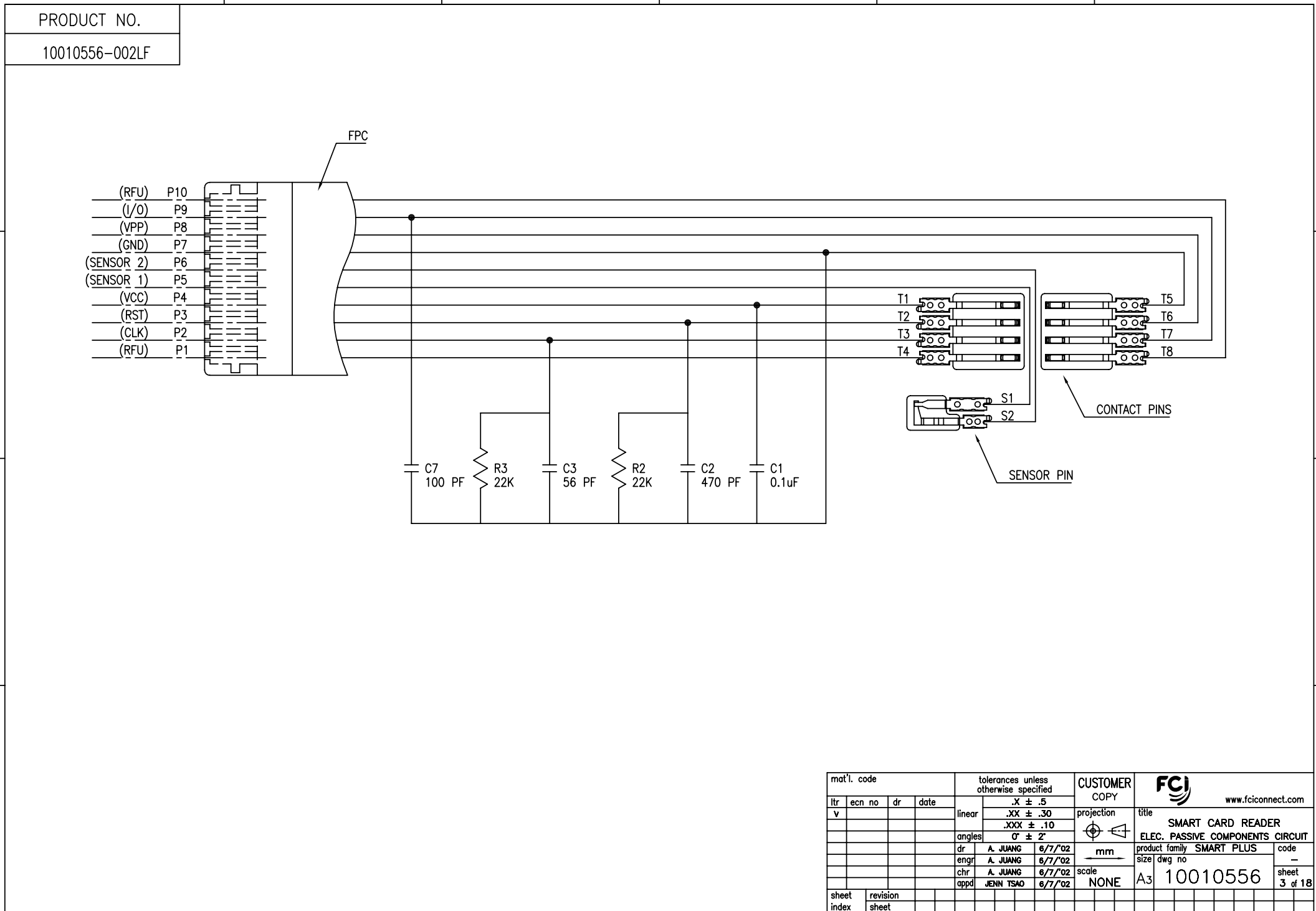


mat'l. code				tolerances unless otherwise specified			CUSTOMER COPY		FCI 		www.fciconnect.com		
ltr	ecr no	dr	date	linear	.X ± .5			projection 	title SMART CARD READER ASSEMBLY				
v					.XX ± .30								
					.XXX ± .10								
				angles	0° ± 2°			 mm	product family		SMART PLUS	code	
				dr	A. JUANG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

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

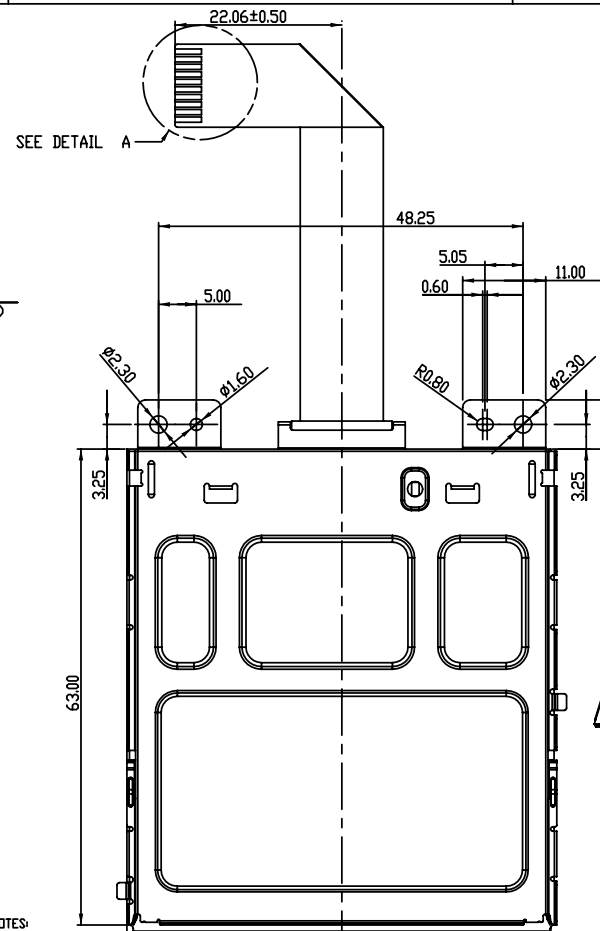
PPID LABEL
TYPE W

POLYESTER FILM
COLOR:BLACK
(THICKNESS:0.10mm)

3.0
(REF.)

3.1
(REF.)

(0.76)
(SMART CARD
THICKNESS)



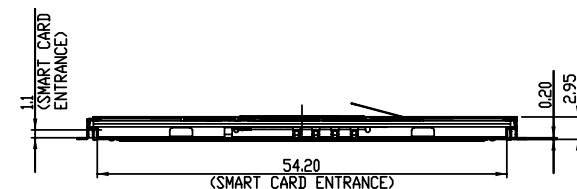
NOTES:

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 x	std x	projection x	MM	
		TOLERANCES UNLESS OTHERWISE SPECIFIED					
Dr	BENNY CHEN	08/21/09	ANGULAR	LINEAR	0.X	±0.25	size A4
Eng	BENNY CHEN	08/21/09			0.XX	±0.15	Scale 0.500
Chr	PAUL WANG	08/24/09	0*	±X*	0.XXX	±X	ECN *
Appr	JOSAPH HSIA	08/24/09	Product family			Spec ref *	
title		ASSEMBLY SMART CARD READER			dwg no 10010556		Rev. V
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	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-



REV F - 2006-04-17

1

2

3 PDM: Rev:V

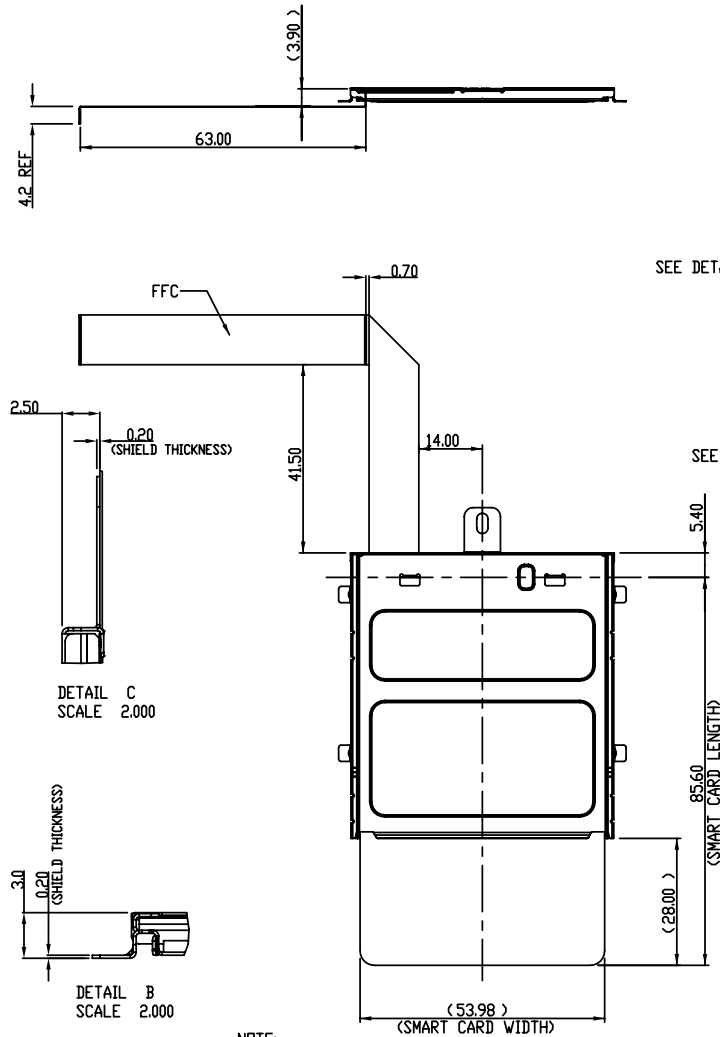
STATUS: Released

4 Printed: Mar 12, 2010



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PRODUCT NO
10010556-004LF



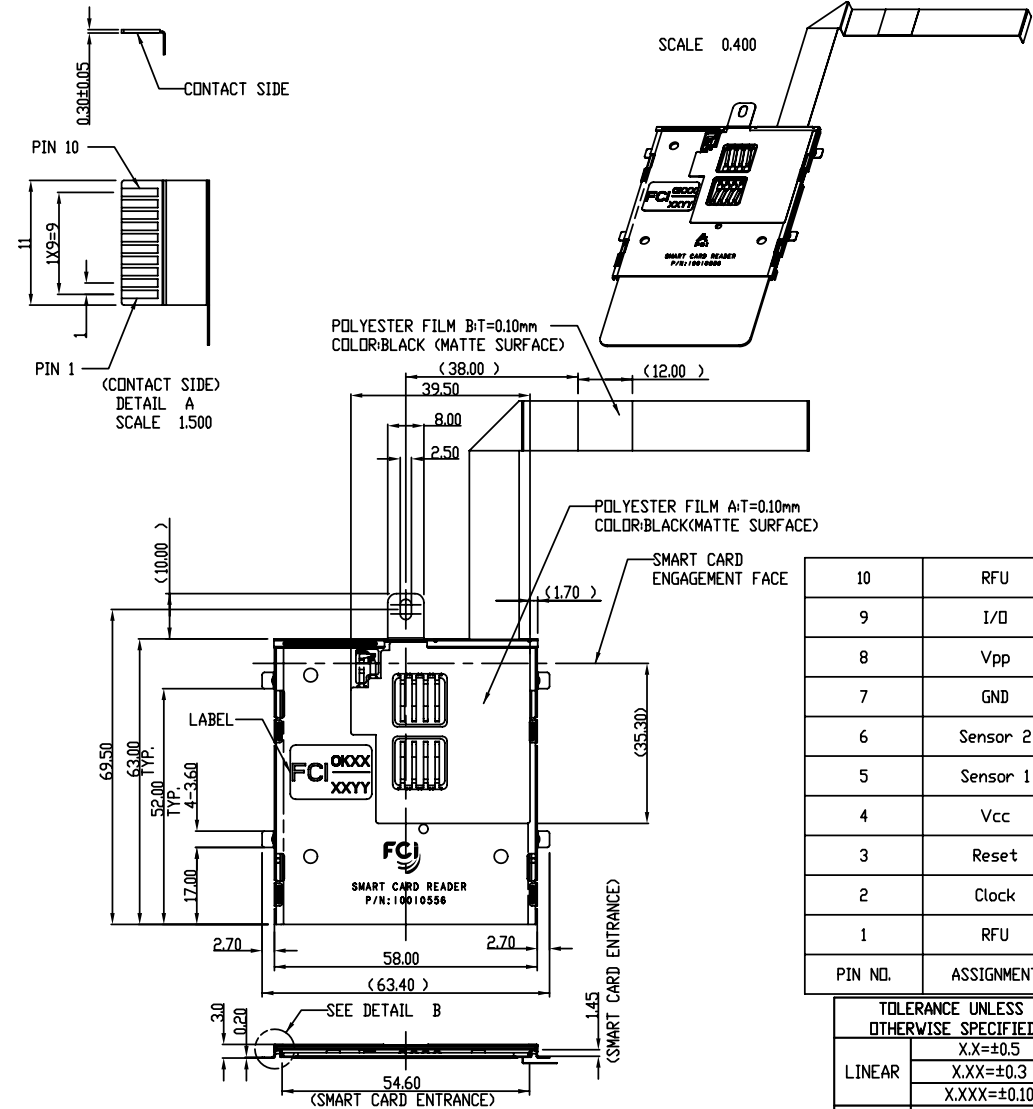
NOTE:

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



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'

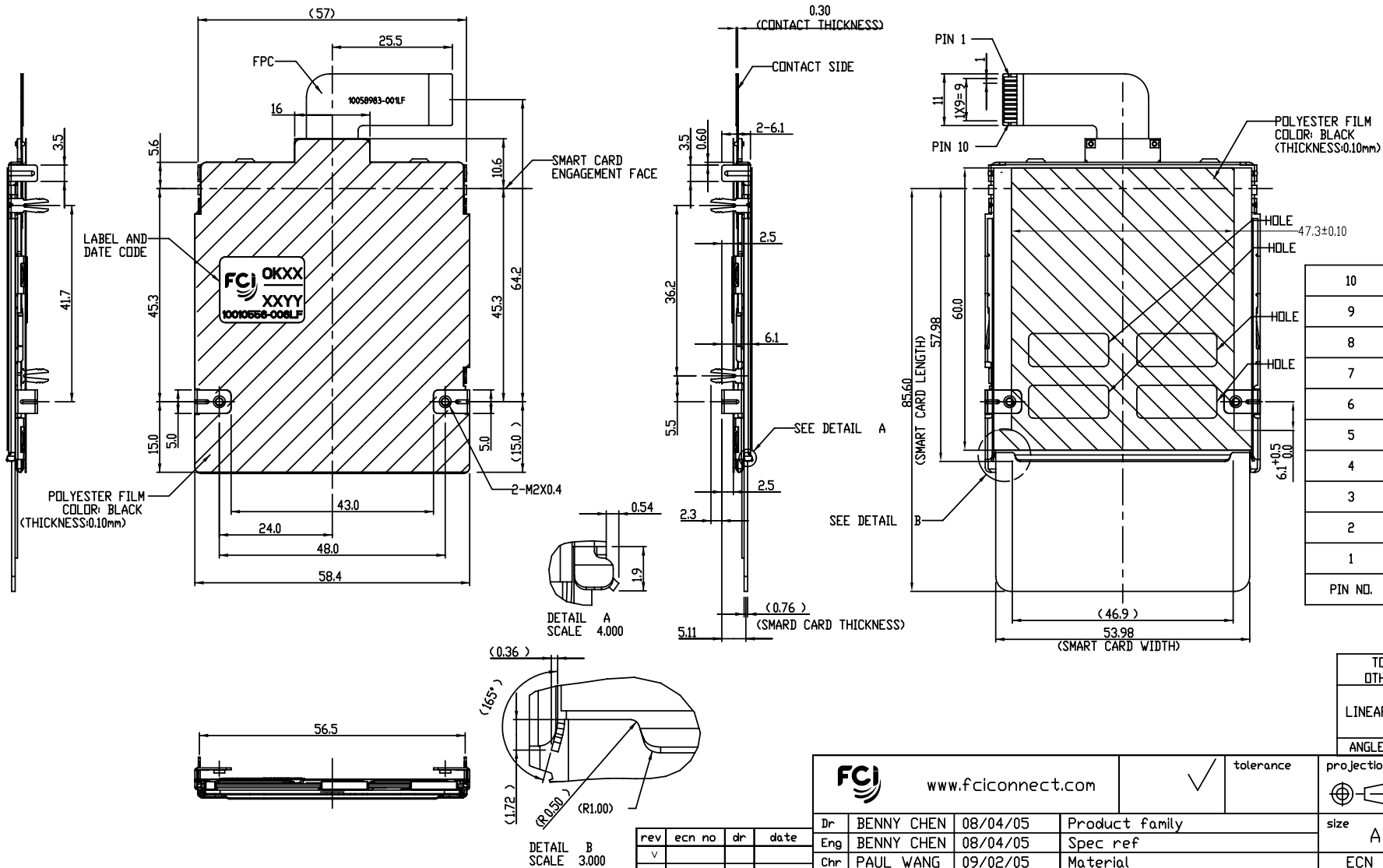
Mark with 10010556-004LF REV. In area indicated by X.....				Material		Spec ref										
				Mat code		✓		tolerance		projection 		MM 				
				Heatreat												
				Plating/Finish												
				Dr	BENNY CHEN	07/06/05					size		A4		Scale 0.500	
rev	ecn no	dr	date	Eng	BENNY CHEN	07/06/05	Product family									
V				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					no dwg		10010556		Rev. V	
		-	-	Pro/E file	catalog no					CUSTOMER DRAWING					sheet 5 of	

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PRODUCT NO
10010556-006LF



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

TOLERANCE UNLESS OTHERWISE SPECIFIED	
LINEAR	XX=±0.5 X.XX=±0.3 X.XXX=±0.10
ANGLE	

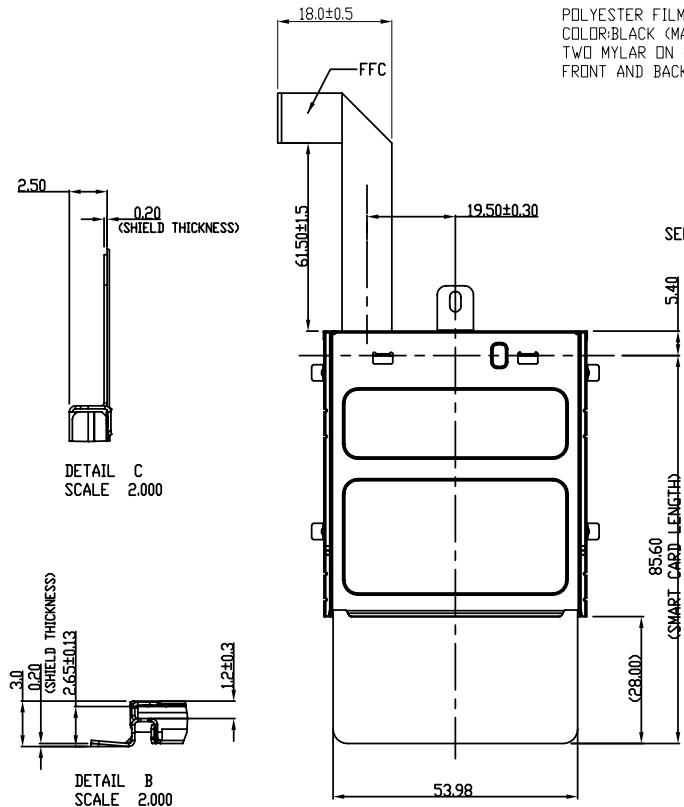
			www.fciconnect.com				tolerance					
Dr		BENNY CHEN		08/04/05		Product family			size		A4	
Eng		BENNY CHEN		08/04/05		Spec ref					Scale	
Chr		PAUL WANG		09/02/05		Material					1.000	
Appr		JOSEPH HSIA		09/02/05							ECN	
title		SMART CARD READER (FPC CABLE)					dwg no		10010556		Rev	
		ASSEMBLY										
catalog no							CUSTOMER DRAWING		sheet 6 of			

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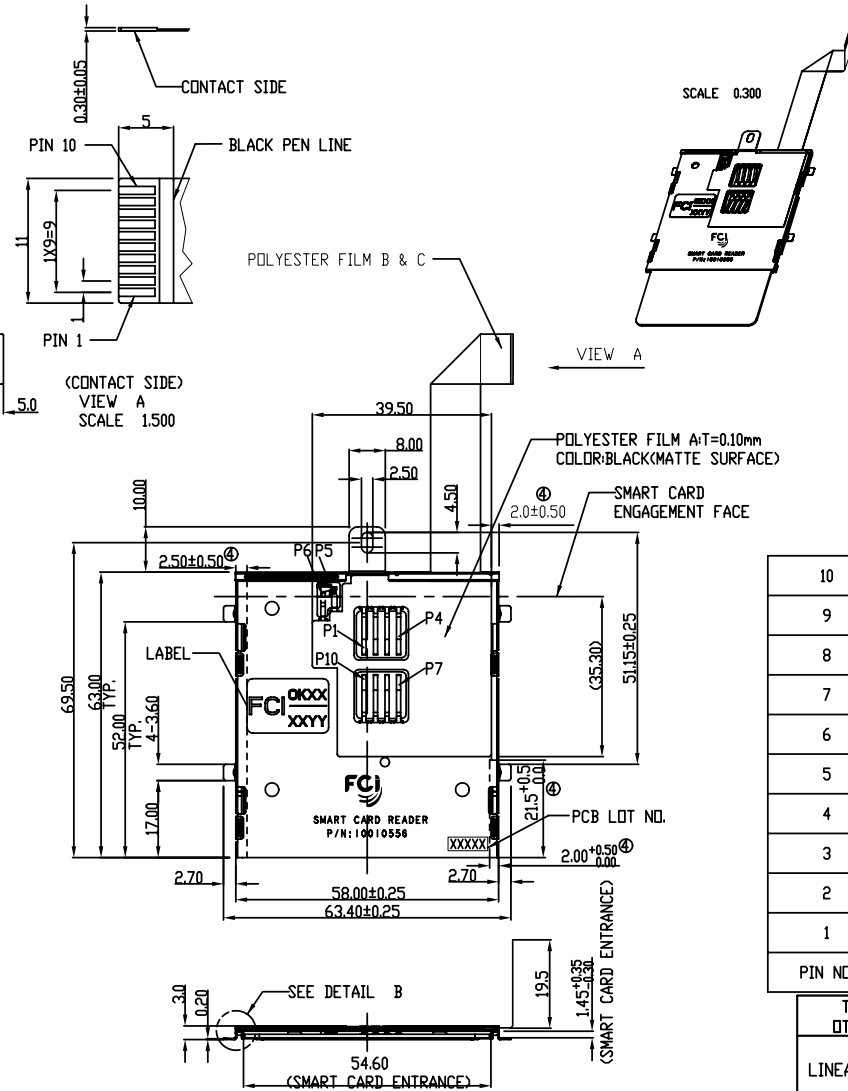


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PRODUCT NO
10010556-005LF



- 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

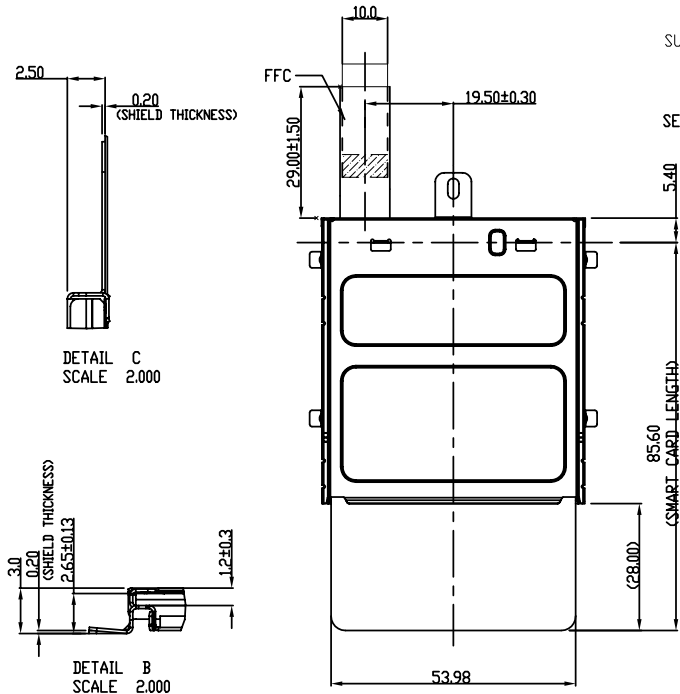
TOLERANCE UNLESS OTHERWISE SPECIFIED	
LINEAR	X.X=±0.25 X.XX=±0.13 X.XXX=±0.050
ANGLE	±0°30'

Mark with 10010556-004LF REV. In area indicated by X....				Material		Spec ref			
				Mat code		✓		tolerance	projection
				Heattreat					MM
				Plating/Finish					
rev	ecn no	dr	date	Dr	DANIEL TAO	07/05/07			size
V				Eng	DANIEL TAO	07/05/07	Product family		A4
				Chr	DANIEL TAO	07/05/07	Model Name 10010556-005LF		Scale 0.500
				Appr	JOSEPH HSIA	07/05/07	Model Revision		ECN
								REL Level	
				FCI		title		dwg no	Rev.
						ASSEMBLY		10010556	V
						SMART CARD READER			
				Pro/E file		catalog no		CUSTOEMER DRAWING	
								sheet 8 of	

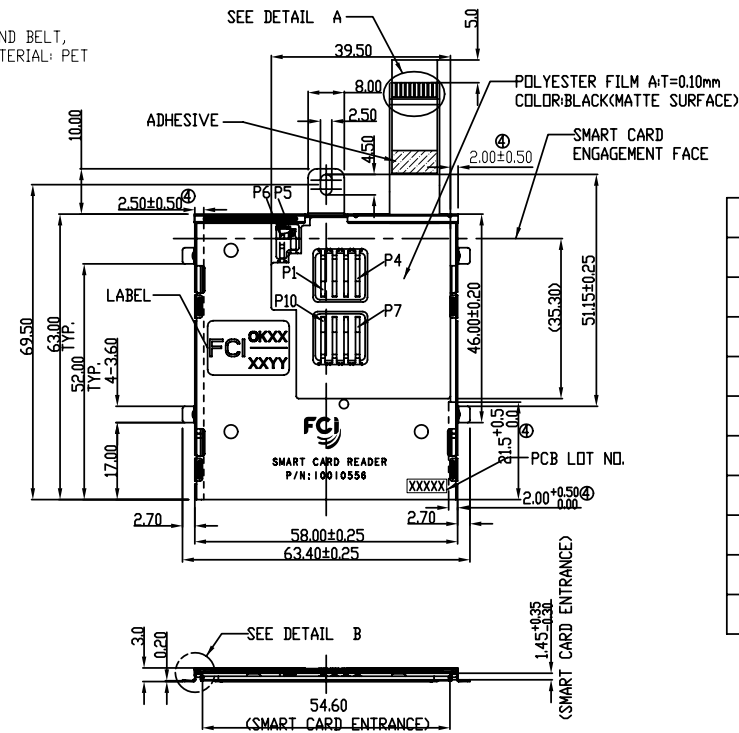
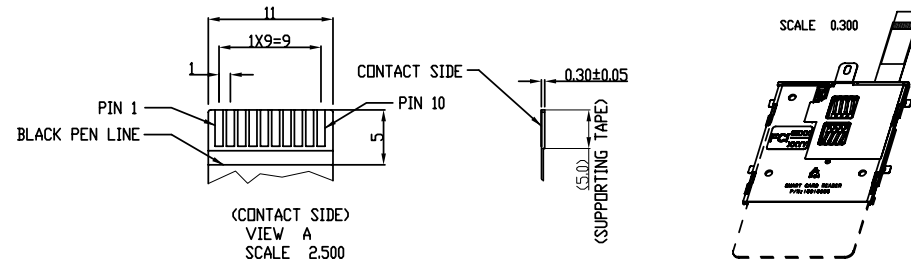


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PRODUCT NO
10010556-008LF



- 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=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.



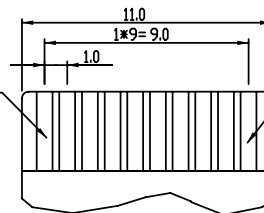
10	RFU
9	I/O
8	Vpp
7	GND
6	Sensor 2
5	Sensor 1
4	VCC
3	Reset
2	Clock
1	RFU
PIN NO.	ASSIGNMENT

TOLERANCE UNLESS OTHERWISE SPECIFIED	
LINEAR	X.X $\pm$ 0.5
	X.XX $\pm$ 0.3
	X.XXX $\pm$ 0.10
ANGLE	$\pm 0^{\circ}30'$

Mark with 10010556-004LF REV. In area indicated by X....				Material		Spec ref							
				Mat code		✓		tolerance	projection	MM			
				Heatreat									
				Plating/Finish									
				Dr	DANIEL TAO	07/05/07				size	A4	Scale	0.500
rev	ecn no	dr	date	Eng	DANIEL TAO	07/05/07	Product family						
V				Chr	DANIEL TAO	07/05/07	Model Name		10010556-008LF				
				Appr	JOSEPH HSIA	07/05/07	Model Revision						
				FCI		title			ASSEMBLY		no dwg	10010556	Rev. V
						SMART CARD READER							
		-	-	Pro/E file	catalog no			CUSTOMER DRAWING		sheet 9 of			

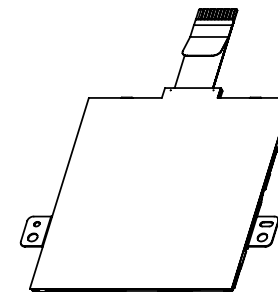
PART NUMBER
0010556-007LF

SEE DETAIL A
CONTACT SIDE
(2.75)
PIN 10
(12)
(4)
(1.75)



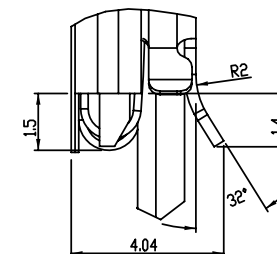
CONTACT SIDE
VIEW DIRECTION
(4.5)

DETAIL A
SCALE 3.000



POLYESTER FILM
COLOR:BLACK
(THICKNESS:0.10mm)

POLYESTER FILM
COLOR:BLACK
(THICKNESS:0.10mm)



DETAIL B
SCALE 5.000

label refer to type t of dell's ppid

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

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.

www.fciconnect.com

PRODUCT SPEC:IGS-1E-231, PACKING SPEC:IGS-14-829, www.fciconnect.com			surface x		tolerance std x x		projection 		MM 			
			TOLERANCES UNLESS OTHERWISE SPECIFIED									
Dr	BENNY CHEN	07/23/07	ANGULAR		0.X		±0.25		size	A4	Scale	0.500
Eng	BENNY CHEN	07/23/07	LINEAR		0.XX		±0.15		ECN	*		
Chr	PAUL WANG	09/10/07			0° ±3°		0.XXX ±					
Appr	JOSEPH HSIA	09/11/07	Product family						Spec ref *			
			title ASSEMBLY SMART CARD READER				dwg no 10010556				Rev. V	
catalog no			*				CUSTOMER DRAWING				sheet 10 of	

rev	ecn no	dr	date
M	N08-0024	BENNY	03/05/08
N	N08-0045	BENNY	05/05/08
V	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

A

B

C

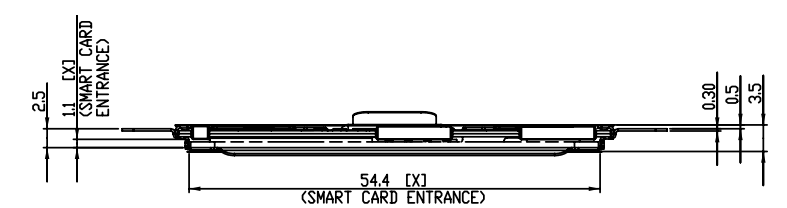
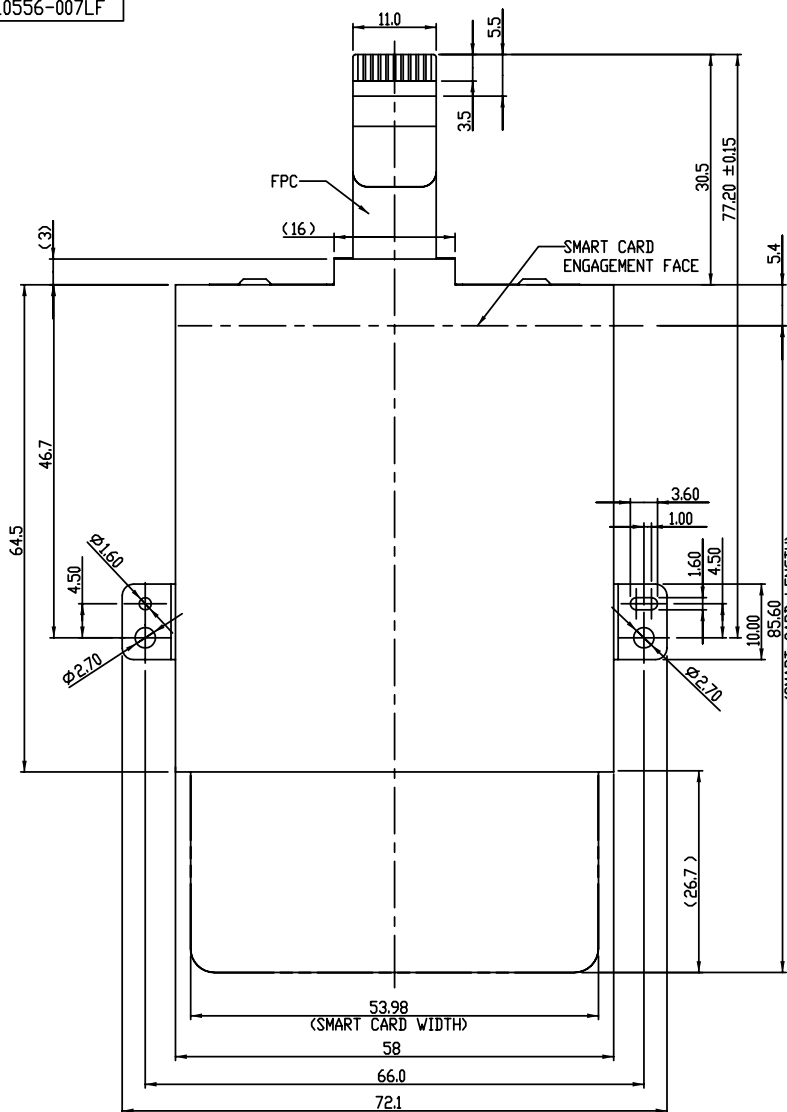
D

A

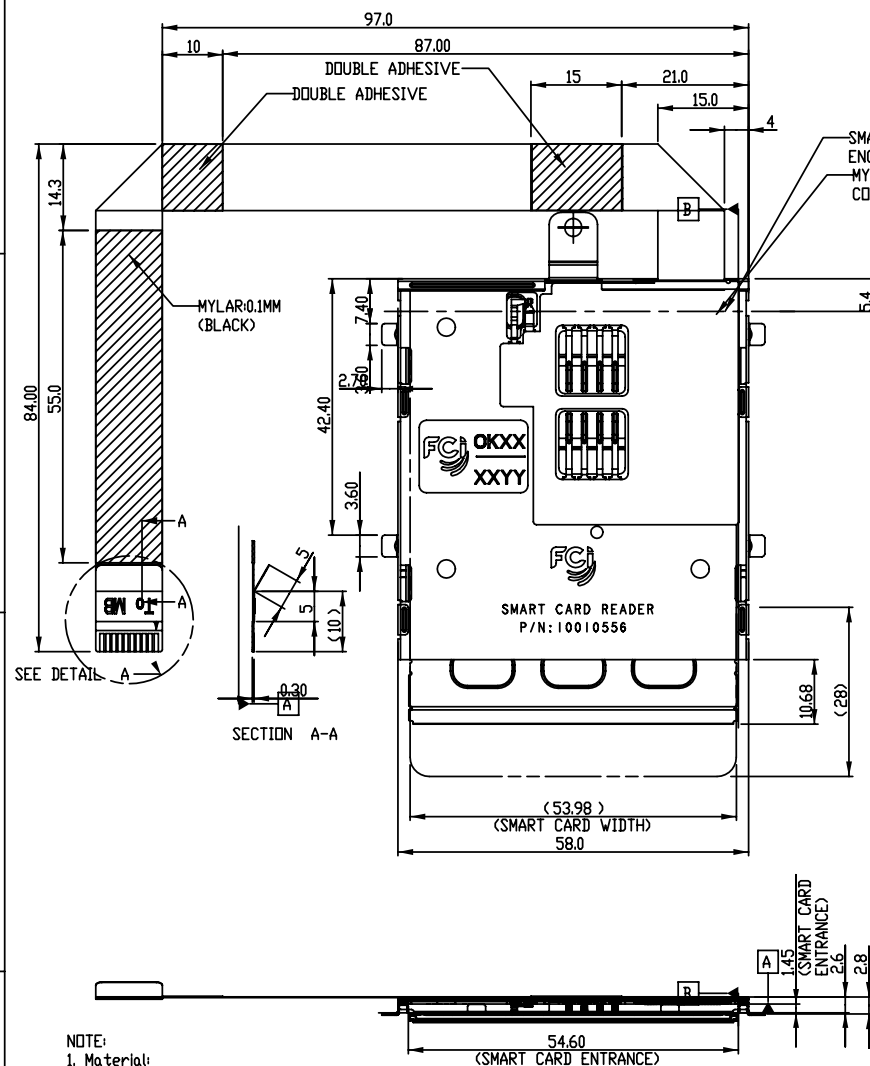
B

C

D

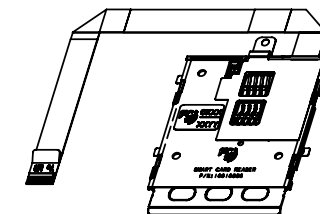


PART NUMBER
0010556-009LF



ADHESIVE AREA
(STICKED BETWEEN
INTERNAL SURFACES)

ADHESIVE AREA
(STICKED BETWEEN
INTERNAL SURFACES)



SCALE 0.350

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

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

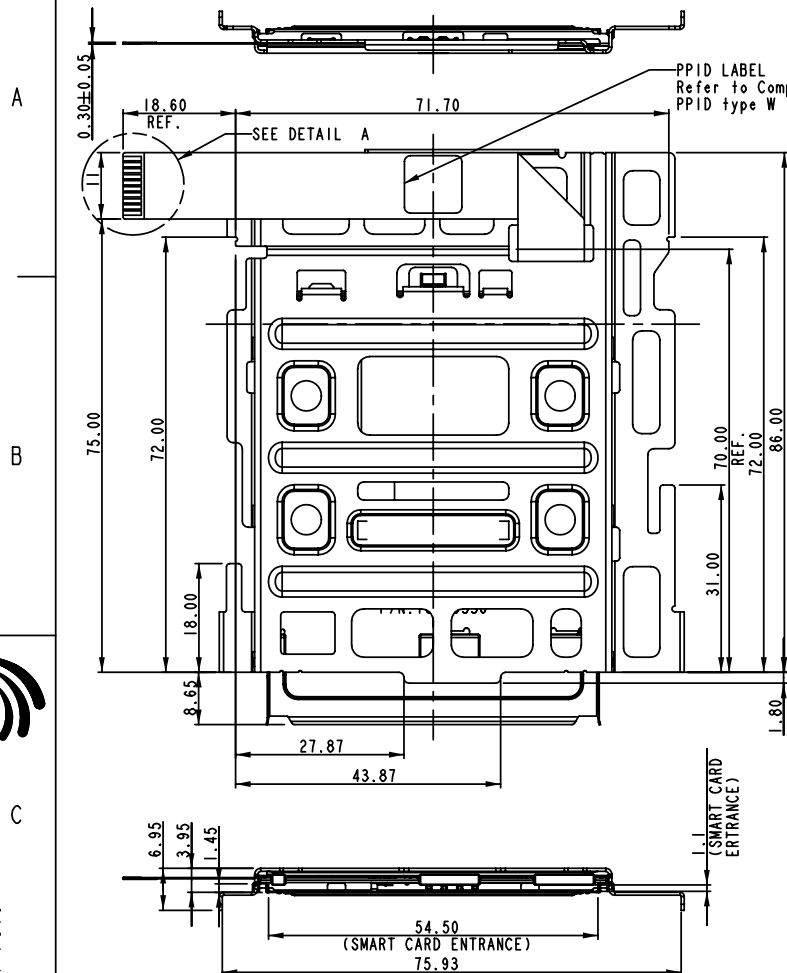
rev	ecn no	dr	date
P	N08-0093	SH	06/11/08
V	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

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	



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PART NUMBER
10010556-010LF



NOTE:

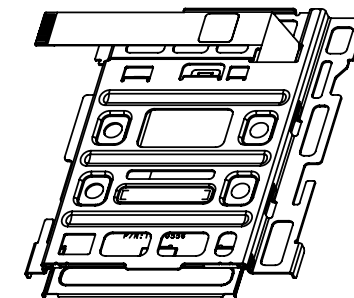
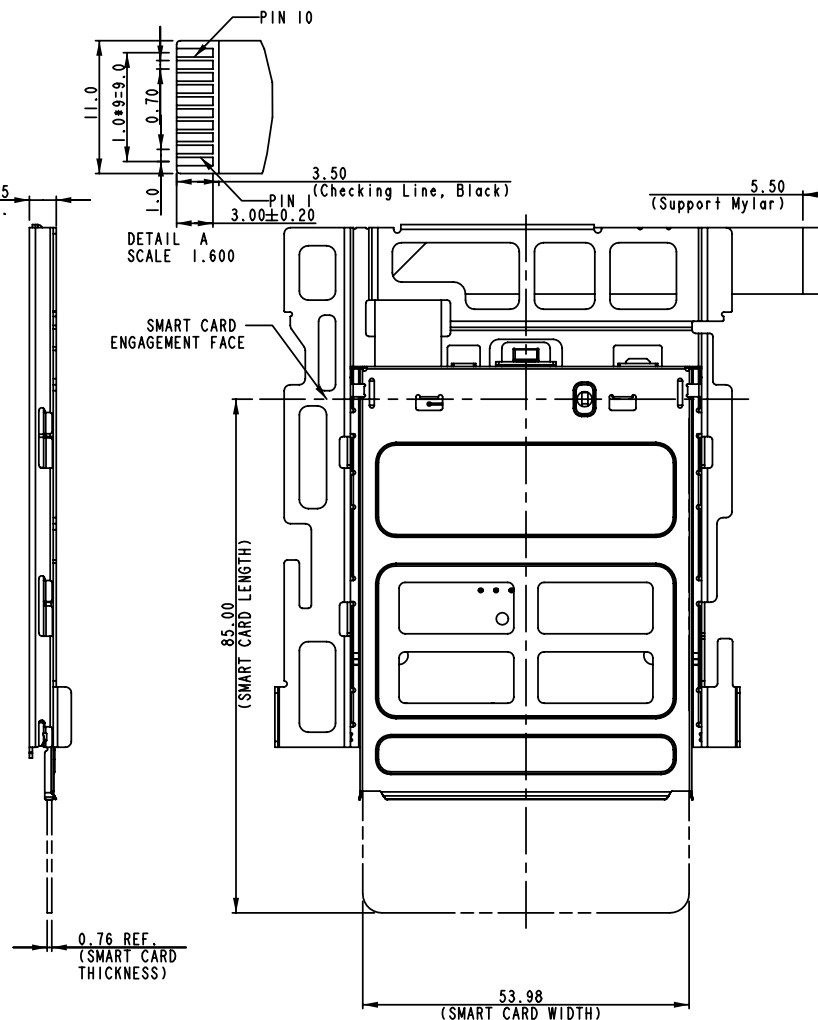
1. Material:

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.

2. CARD DETECTION SWITCH NORMALLY OPEN WITHOUT MATING CARD
3. REFERENCE SPECIFICATION:
PRODUCT SPEC.: GS-12-231.
PACKING SPEC.: GS-14-829.

2

2



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

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	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

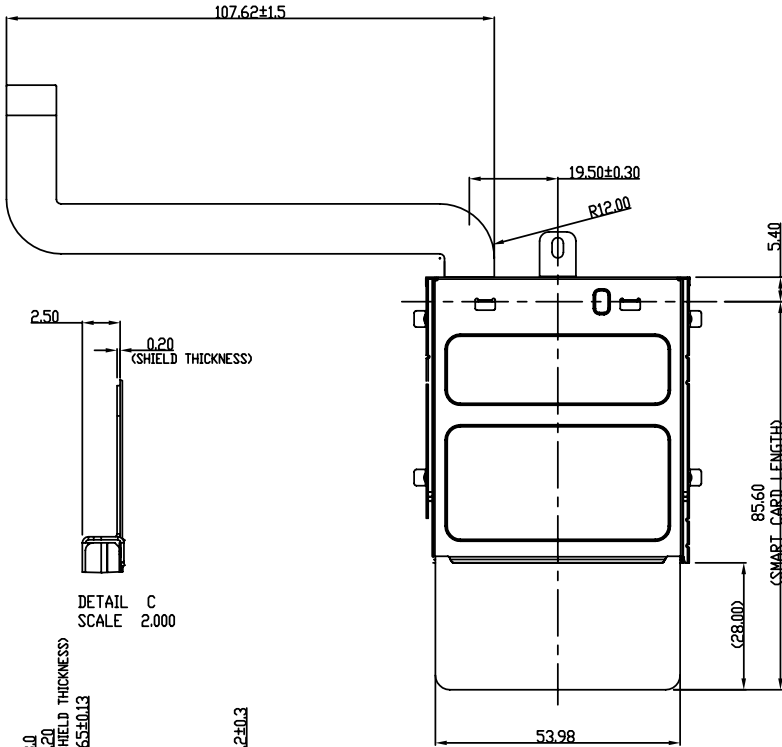
www.fciconnect.com			surface X		tolerance std X X		projection 		MM 		
			TOLERANCES UNLESS OTHERWISE SPECIFIED								
Dr	BENNY CHEN	02/05/08	ANGULAR	LINEAR	0.X		±0.3		size A4	Scale 1.000	
Eng	BENNY CHEN	02/05/08			0.XX		±.20				
Chr	PAUL WANG	02/13/08			0.XXX		±X				
Appr	JOSEPH HSIA	02/15/08	Product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



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PRODUCT NO
10010556-011LF

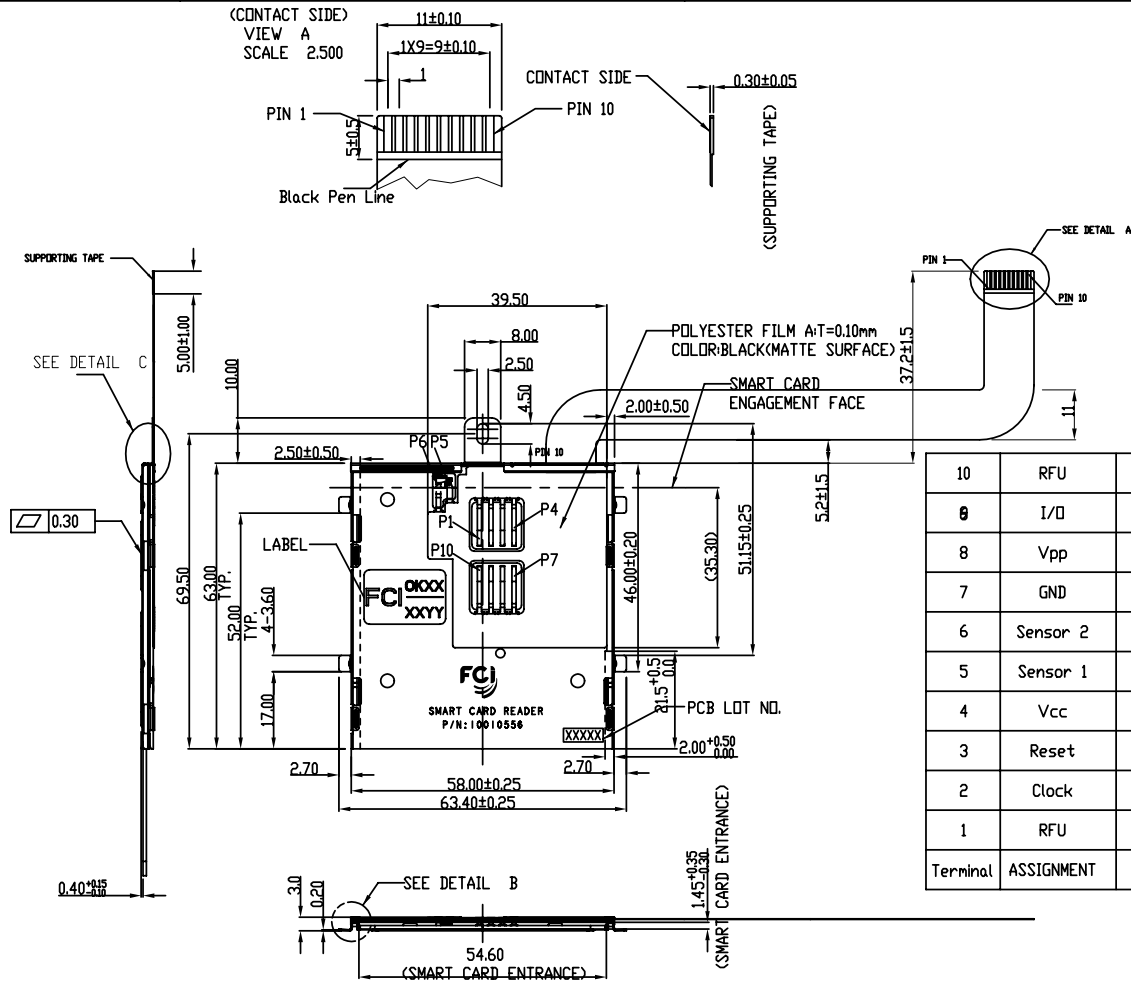


DETAIL C
SCALE 2.000

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'

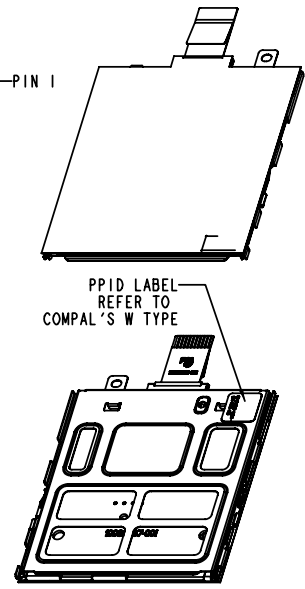
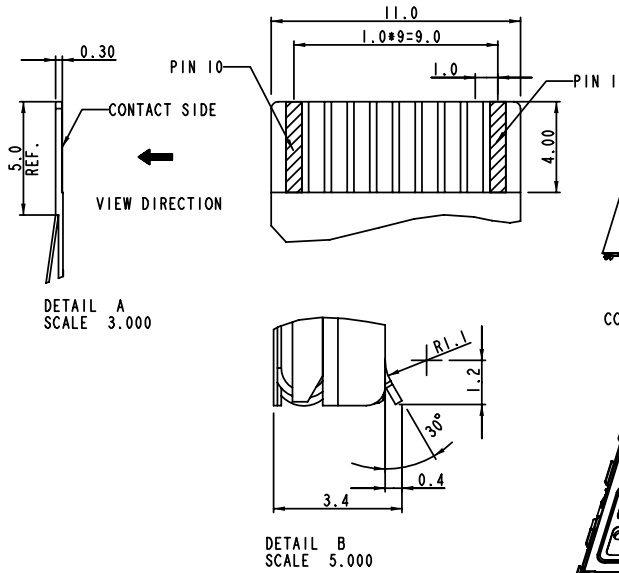
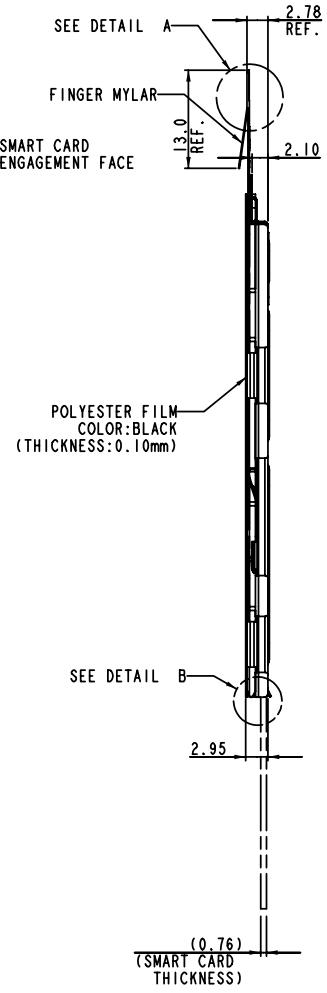
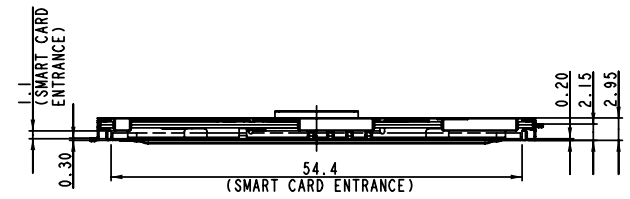
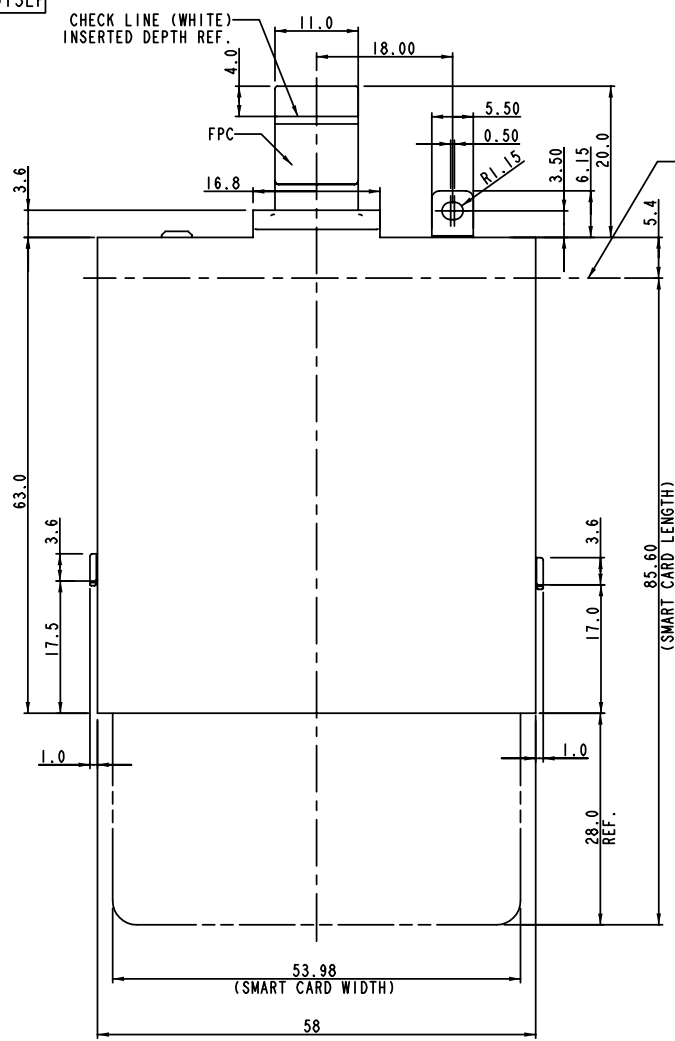
Mark with 10010556-004LF REV. In area indicated by X.....				Material			Spec ref			
				Mat code			✓	tolerance	projection 	MM
				Heattreat						
				Plating/Finish						
				Dr	MIAO SH	05/08/08				
rev	ecn no	dr	date	Eng	MIAO SH	05/08/08	Product family		size A4	Scale 0.500
N	N08-0045	SH	05/08/08	Chr	DANIEL TAO	05/08/08	Model Name		ECN	
V				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

⁴ Printed: Mar 12, 2010



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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

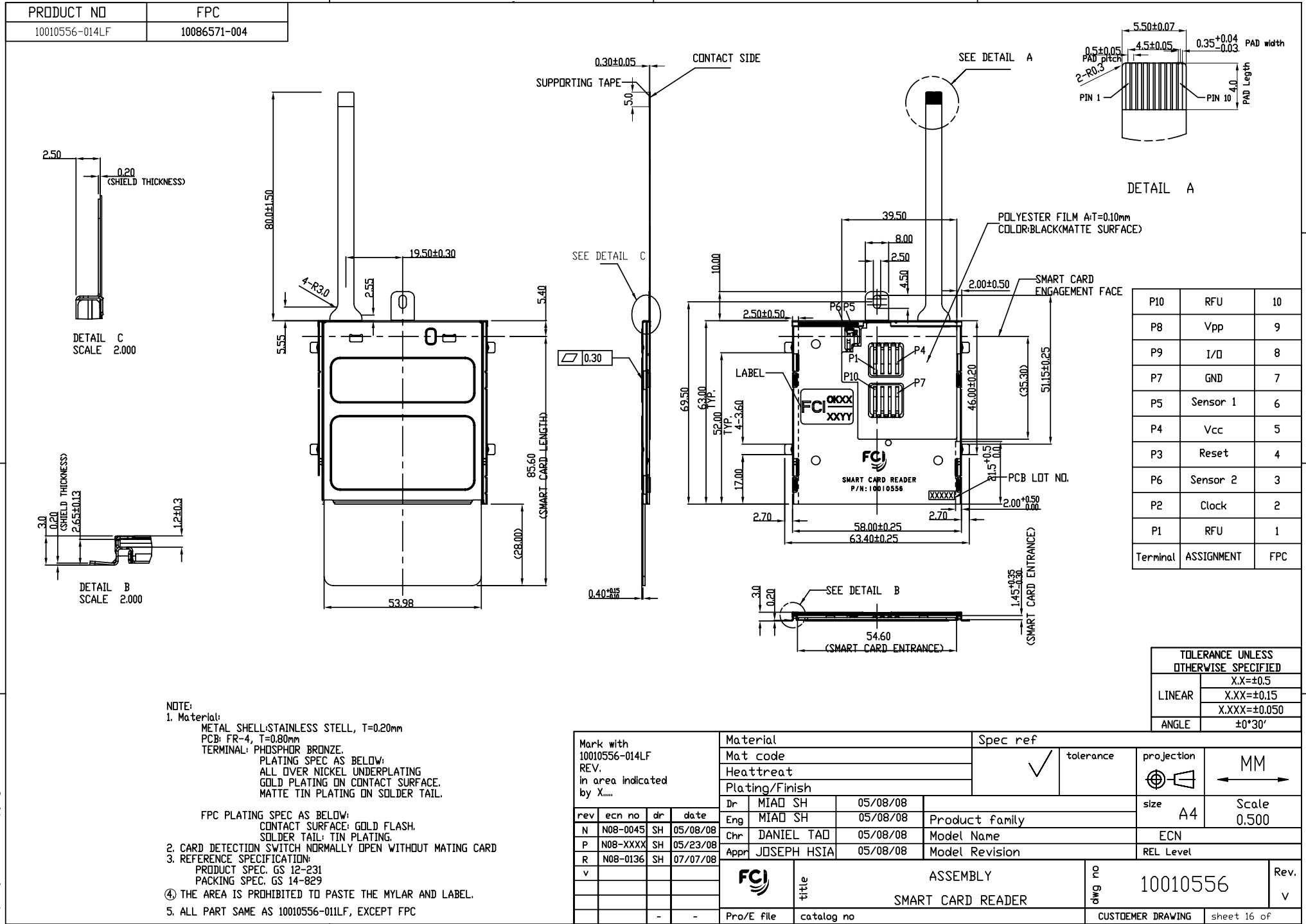
rev	ecn no	dr	date
R	N08-0136	BENNY	05/08/08
S	N08-0212	SH	10/06/08
V	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

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		±		ECN		*
Appr	JOSEPH HSIA	06/16/08	Product family							Spec ref			*
			title ASSEMBLY SMART CARD READER					dwg no 10010556		Rev. V			
			catalog no					*		CUSTOMER DRAWING sheet 15 of			



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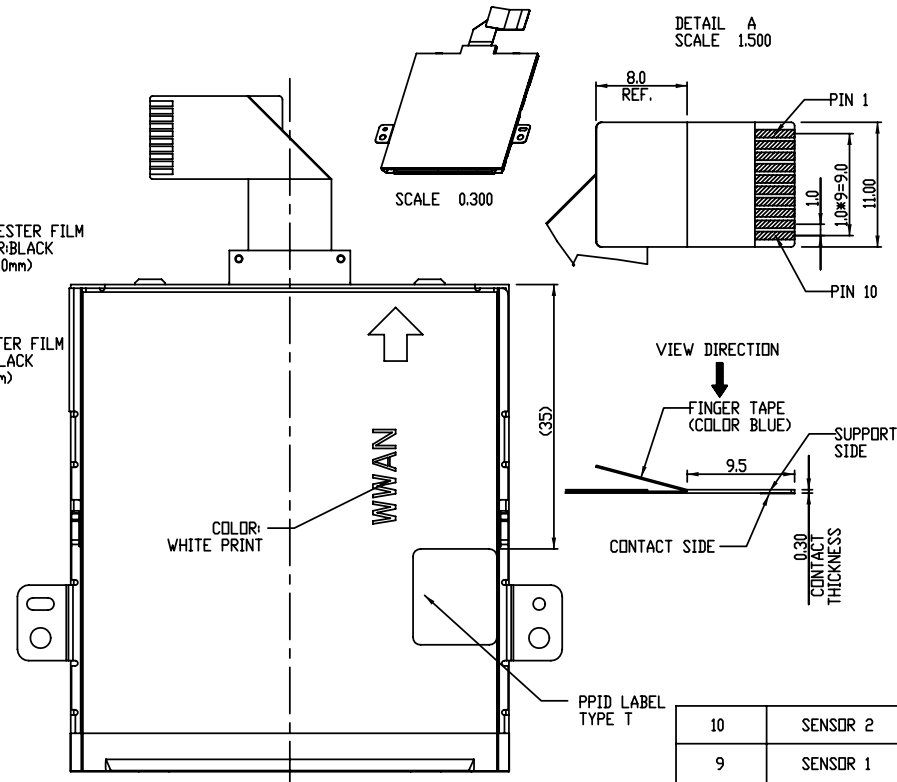
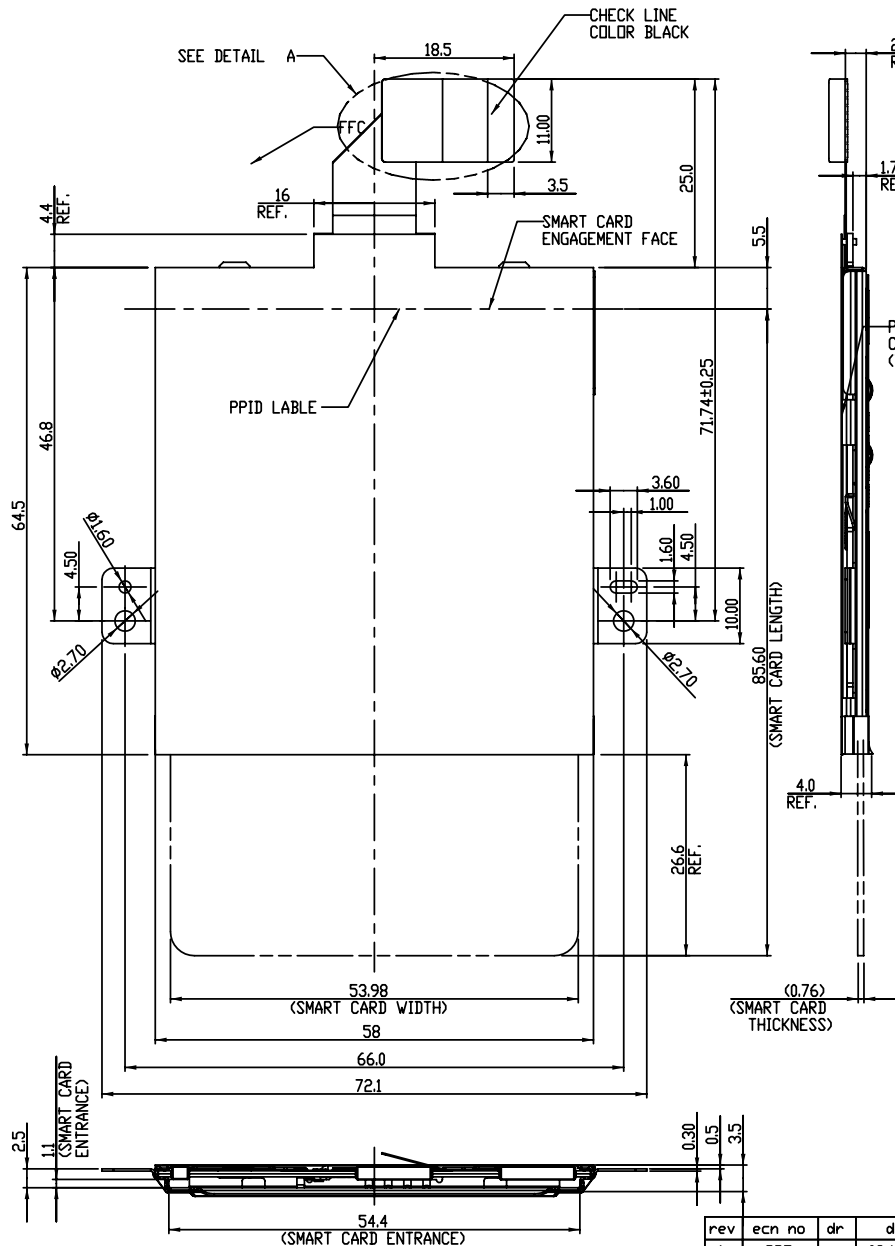
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PART NUMBER
10010556-015LF



- NOTE:
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: 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.
 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

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

rev	ecn no	dr	date
1	PRE	SH	03/31/09
2	PRE	BENNY	04/15/09
3	PRE	BENNY	07/31/09
T	N09-0224	SH	08/19/09
V	-	-	-
-	-	-	-
-	-	-	-

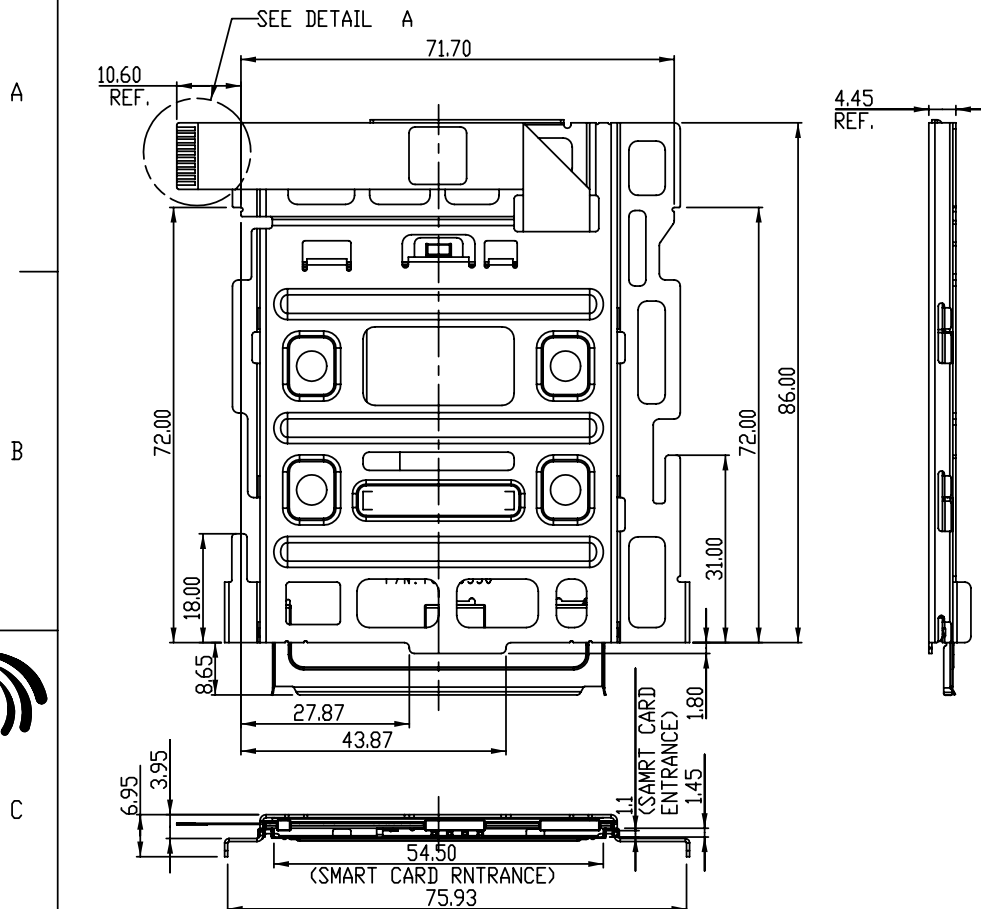
REV F - 2006-04-17

3 PDM: Rev:V

STATUS: Released

4 Printed: Mar 12, 2010

PRODUCT NO.
10010556-016LF



NOTE:

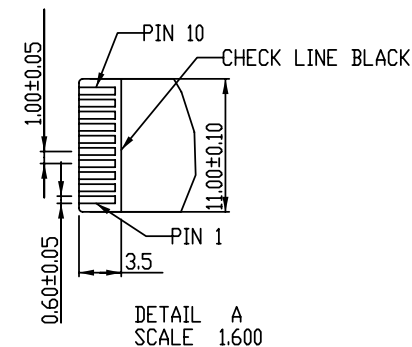
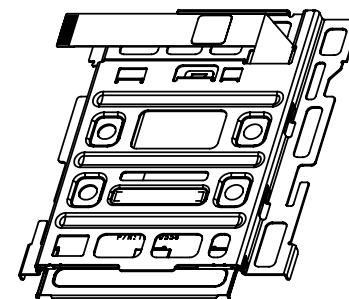
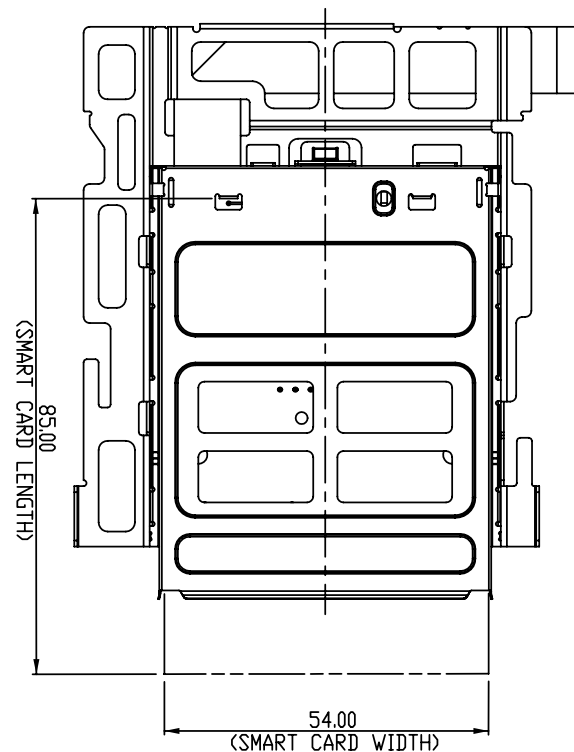
1. Material:

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

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					
Appr	TAD DANIEL	04/14/09	Product family				-	Spec ref				
		title	SMART CARD READER				dwg no	10010556		Rev.		
			-								CUSTOMER DRAWING	
			catalog no									sheet 18 of

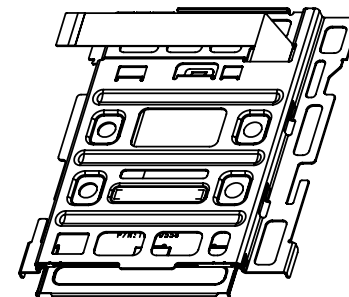
rev	ecn no	dr	date
V	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

PRODUCT NO.
10010556-017LF

CHECK LINE
COLOR BLACK

4.45
REF.

SEE DETAIL A



A

B

C

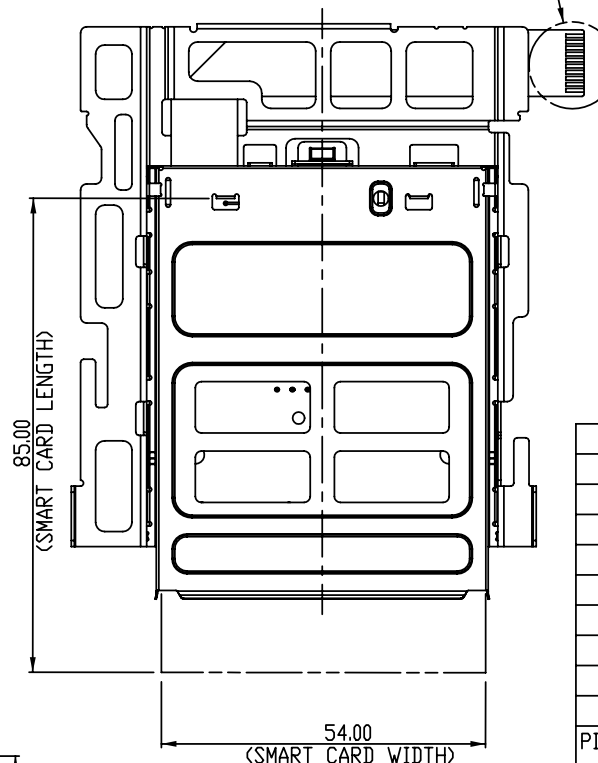
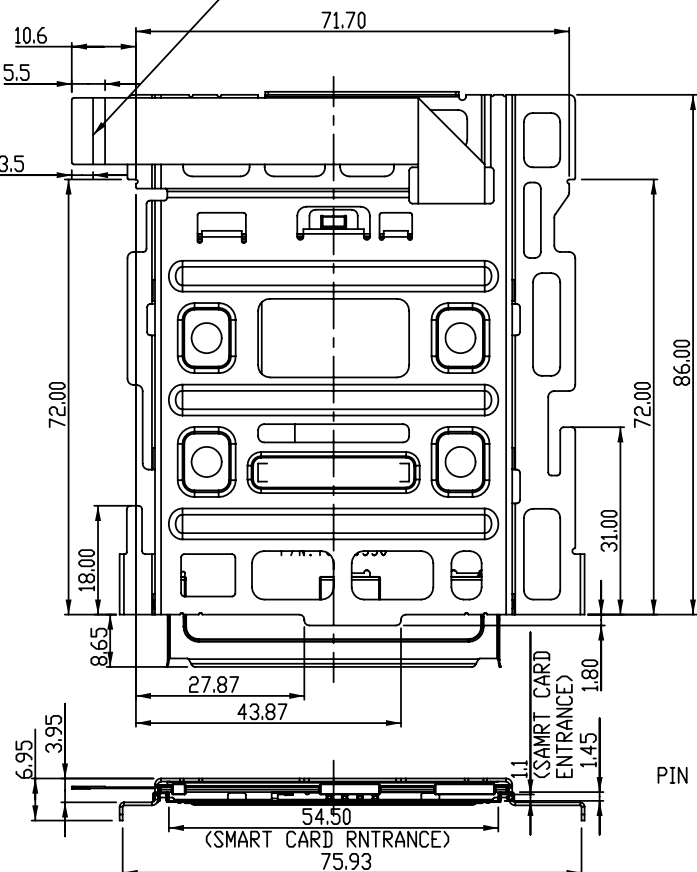
D

A

B

C

D



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

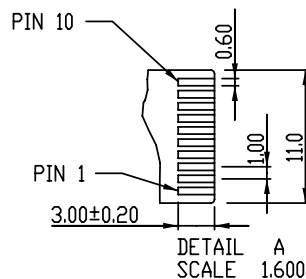
NOTE:

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 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.



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						
			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				
Appr	TAD DANIEL	04/14/09	Product family				-	Spec ref			
		title				dwg no				Rev.	
		- SMART CARD READER				10010556				V	
		catalog no				- CUSTOMER DRAWING				sheet 19 of	



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PRODUCT NO
10010556-018LF

SEE DETAIL A

FFC

2.50
0.20
(SHIELD THICKNESS)

DETAIL C
SCALE 2.000

3.0
0.20
(SHIELD THICKNESS)

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.

FLEXIBLE FLAT CABLE: TOTAL LENGTH=124±2mm

PLATING SPEC AS BELOW:

CONTACT SURFACE: TIN PLATING.

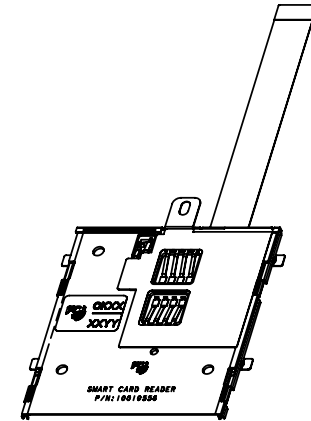
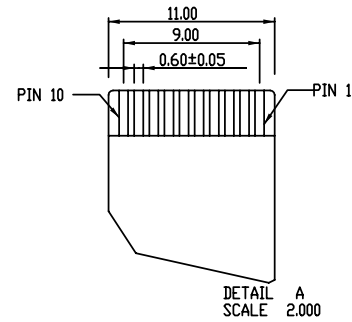
SOLDER TAIL: TIN PLATING.

2. CARD DETECTION SWITCH NORMALLY OPEN WITHOUT MATING CARD

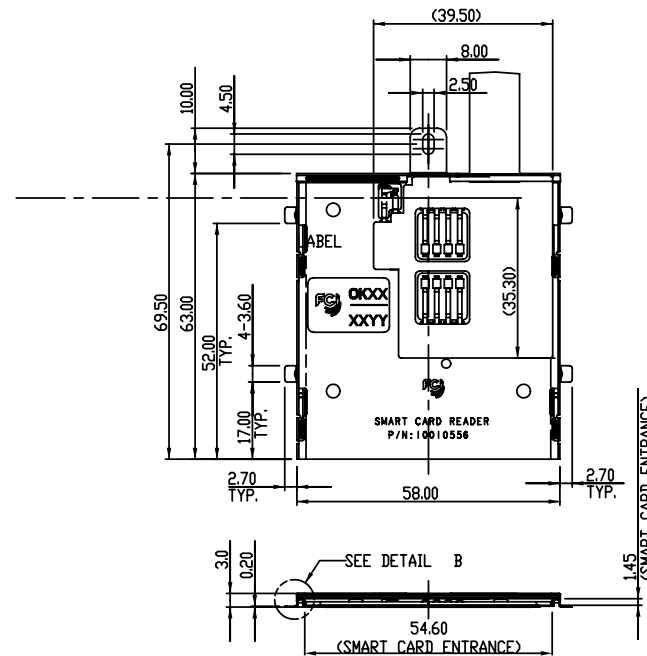
3. REFERENCE SPECIFICATION:

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°

rev	ecn no	dr	date
1	-	SH	09/25/09
V	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

www.fciconnect.com			surface 		tolerance std					
			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°	±°		0.XXX	±0.13	ECN		
Appr			Product family					Spec ref		
		title SMART CARD READER				dwg no 10010556		Rev. V		
		catalog no						sheet 20 of		