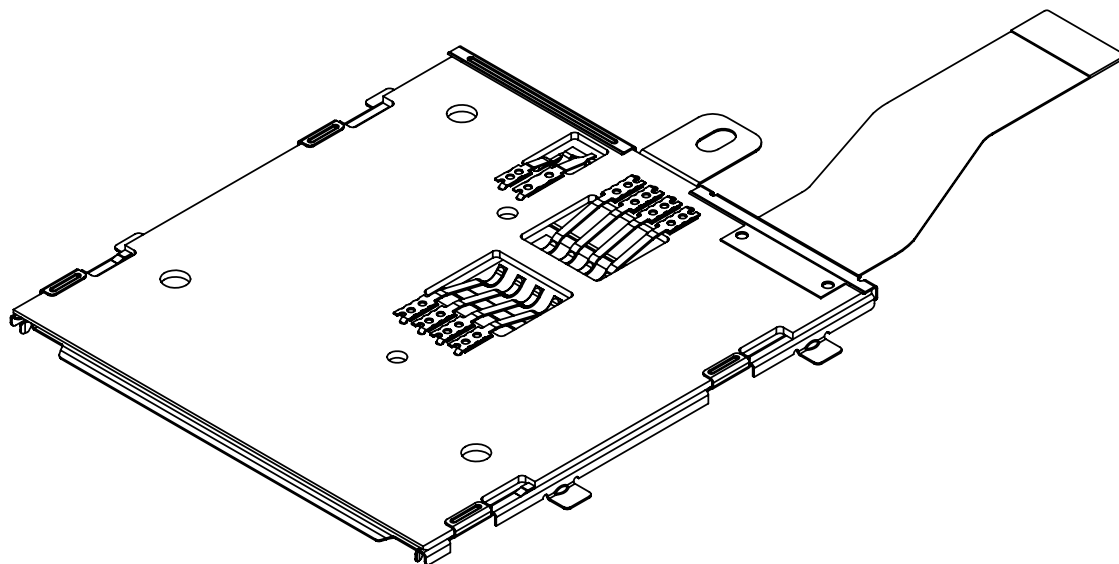




PRODUCT NO.	FPC	PACKAGING	COMPONENTS	LEAD FREE	PCB COLOR
10010556-002LF	10010559-002LF	10017475-02-002	ELEC. PARTS	YES	BLUE
10010556-003LF	10105325-001	10017475-02-009	N/A	YES	BLACK
10010556-004LF	10056226-002LF(FFC)	10017475-02-004	N/A	YES	BLUE
10010556-006LF	10058983-001LF	10017475-02-003	N/A	YES	BLACK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

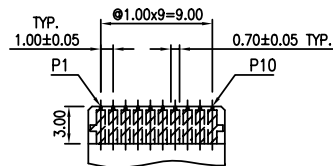


NOTE :

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.

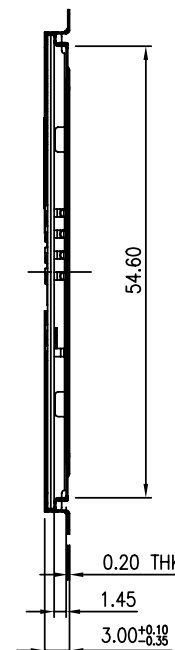
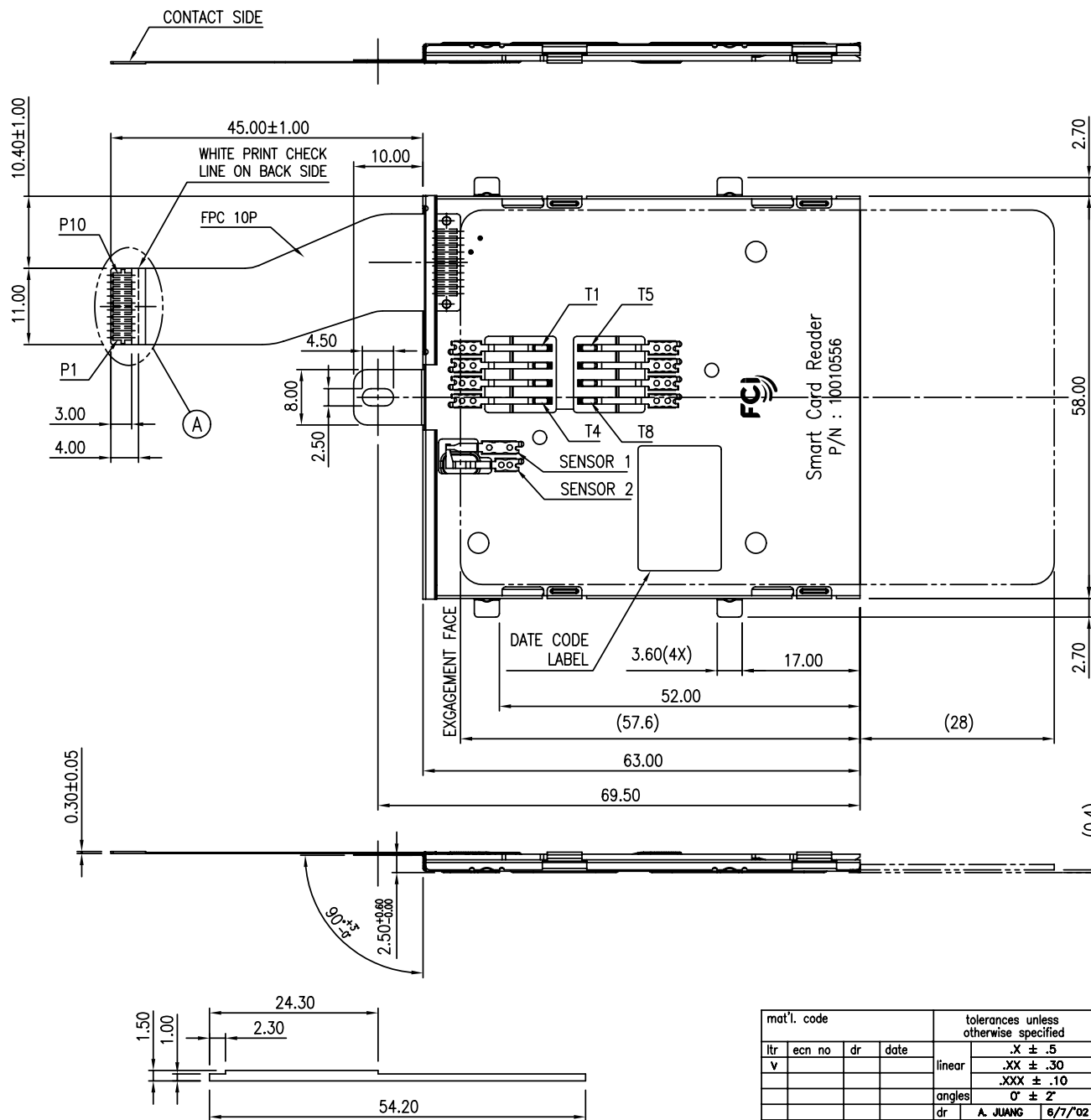
mat'l. code				tolerances unless otherwise specified			CUSTOMER COPY		FCI www.fciconnect.com		
ltr	ecn no	dr	date	linear	.X ± 0.5		projection 	title SMART CARD READER ASSEMBLY	product family 95	code —	
R	N08-0136	SH	07/07/08		.XX ± 0.30						
S	N08-0212	SH	10/06/08		.XXX ± 0.10						
T	N09-0224	SH	7/15/09	angles	0° ± 2°		MM 	size dwg no	A3	10010556	
U	N09-0306	SH	10/13/09	dr	A.JUANG 6/7'02						
V	N10-0058	SH	3/3/10	enrg	A.JUANG 6/7'02						
				chr	A.JUANG 6/7'02		scale NONE				
				appd	JENN.TSAO 6/7'02						
sheet index		revision sheet								sheet 1 of 20	

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

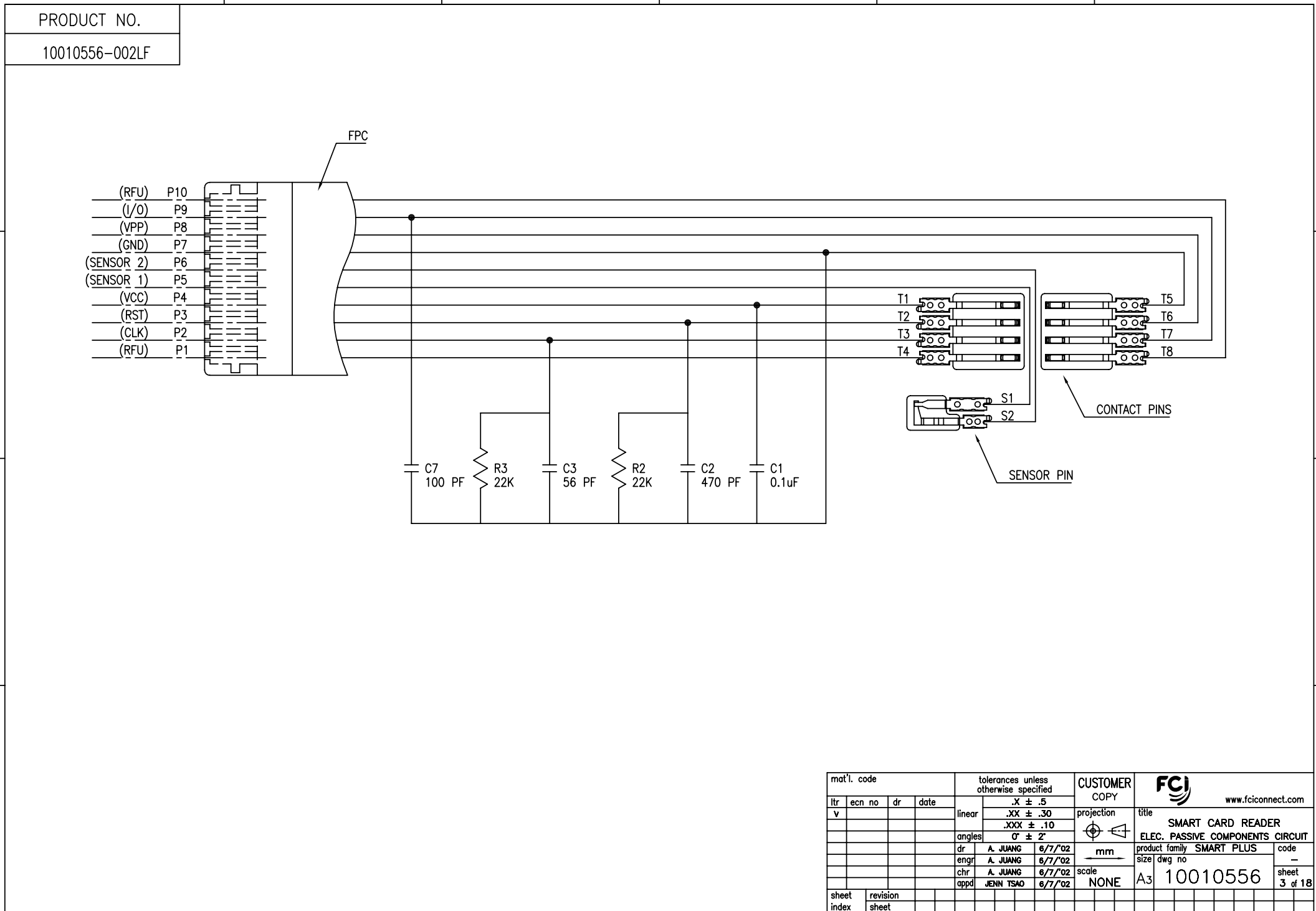


mat'l. code				tolerances unless otherwise specified				CUSTOMER COPY		FCI		www.fciconnect.com	
ltr	ecr no	dr	date	linear	.X ± .5	projection	title	SMART CARD READER ASSEMBLY		product family SMART PLUS		code -	
v				angles	.XX ± .30	0° ± 2°	size	A3		10010556		sheet 2 of 18	
				dr	A. JUANG 6/7/'02	mm	scale	NONE		A3		22526	
				enr	A. JUANG 6/7/'02								
				chr	A. JUANG 6/7/'02								
				appd	JENN TSAO 6/7/'02								
sheet index	revision sheet												

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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 ELEC. PASSIVE COMPONENTS CIRCUIT				
v					.XX ± .30										
					.XXX ± .10										
				angles	0° ± 2'					mm	product family		SMART PLUS	code	
				dr	A. JUANG	6/7/'02	scale	NONE			size	dwg no	A3	10010556	—
				enrg	A. JUANG	6/7/'02									
				chr	A. JUANG	6/7/'02									
				appd	JENN TSAO	6/7/'02							sheet		
sheet index	revision sheet												3 of 18		
PDM: Rev:V				STATUS: Released				Printed: Mar 12, 2010				6			
								22926							

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

1.45

16.8

3.6

58.50

64.50

72.45 REF.
(SMART CARD LENGTH)

1.30

2.20

53.98 REF.
(SMART CARD WIDTH)

56.90

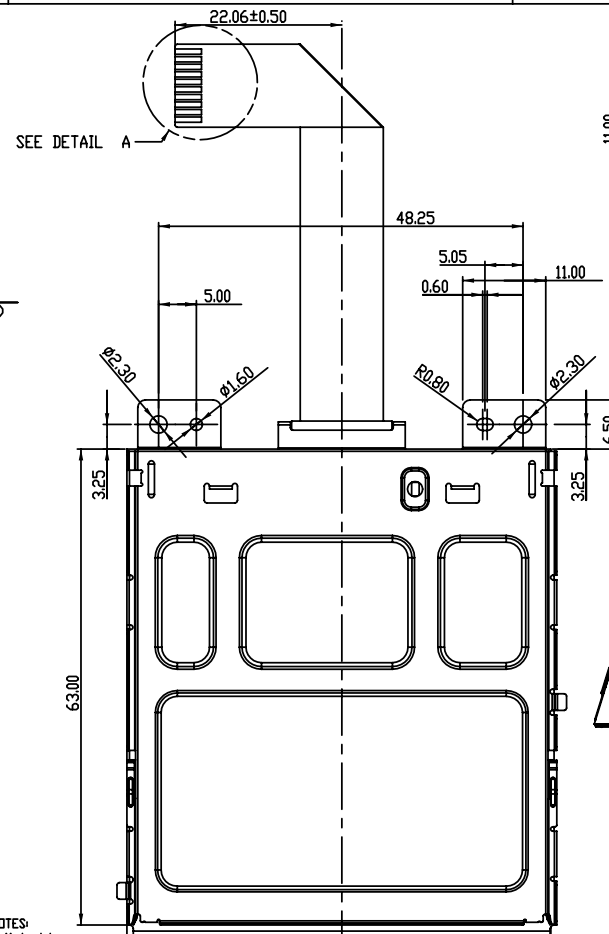
PPID LABEL
TYPE W

(13.3)
(REF.)

POLYESTER FILM
COLOR:BLACK
(THICKNESS:0.10mm)

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

size A4

Scale 0.500

ECN *

Spec ref *

Product family

ASSEMBLY

SMART CARD READER

dwg no 10010556

Rev. V

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

catalog no

dwg no

customer drawing

sheet 4 of

1

2

3 PDM: Rev:V

STATUS: Released

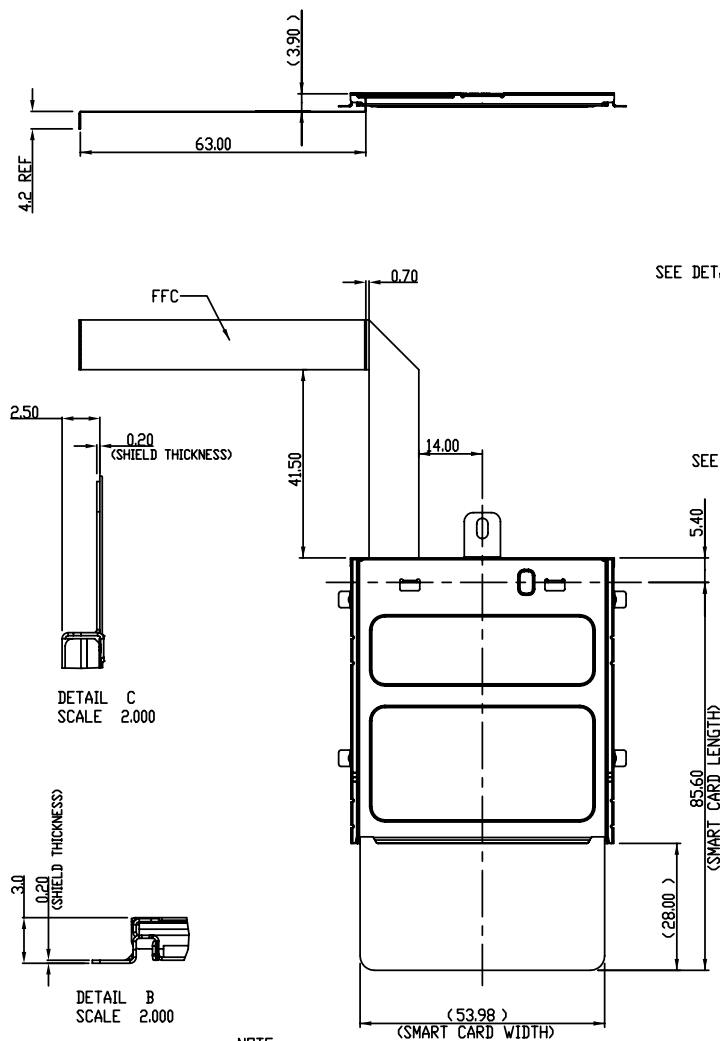
4 Printed: Mar 12, 2010

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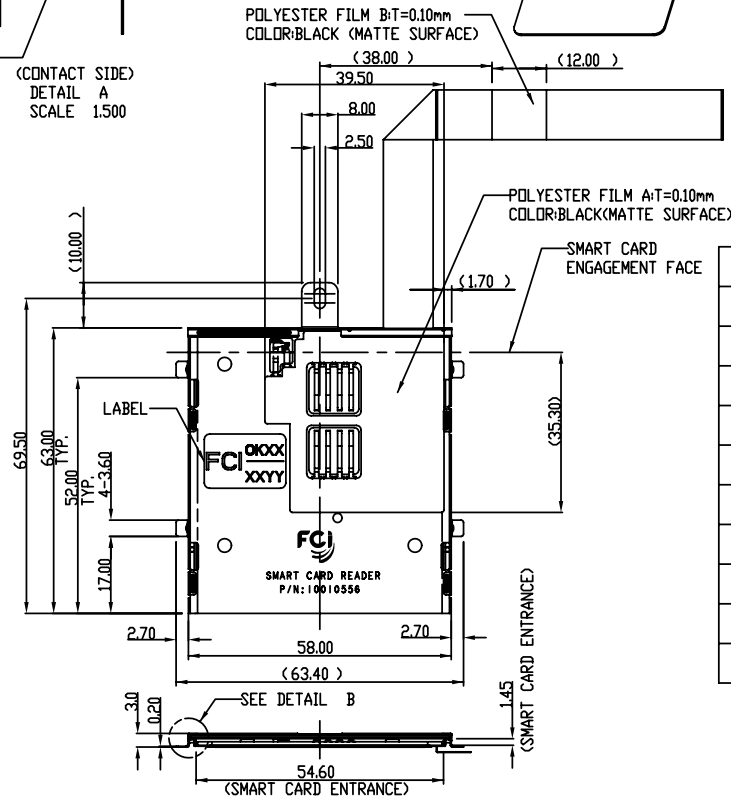
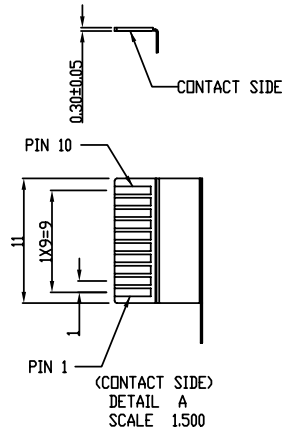


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PRODUCT NO
10010556-004LF



- 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



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'

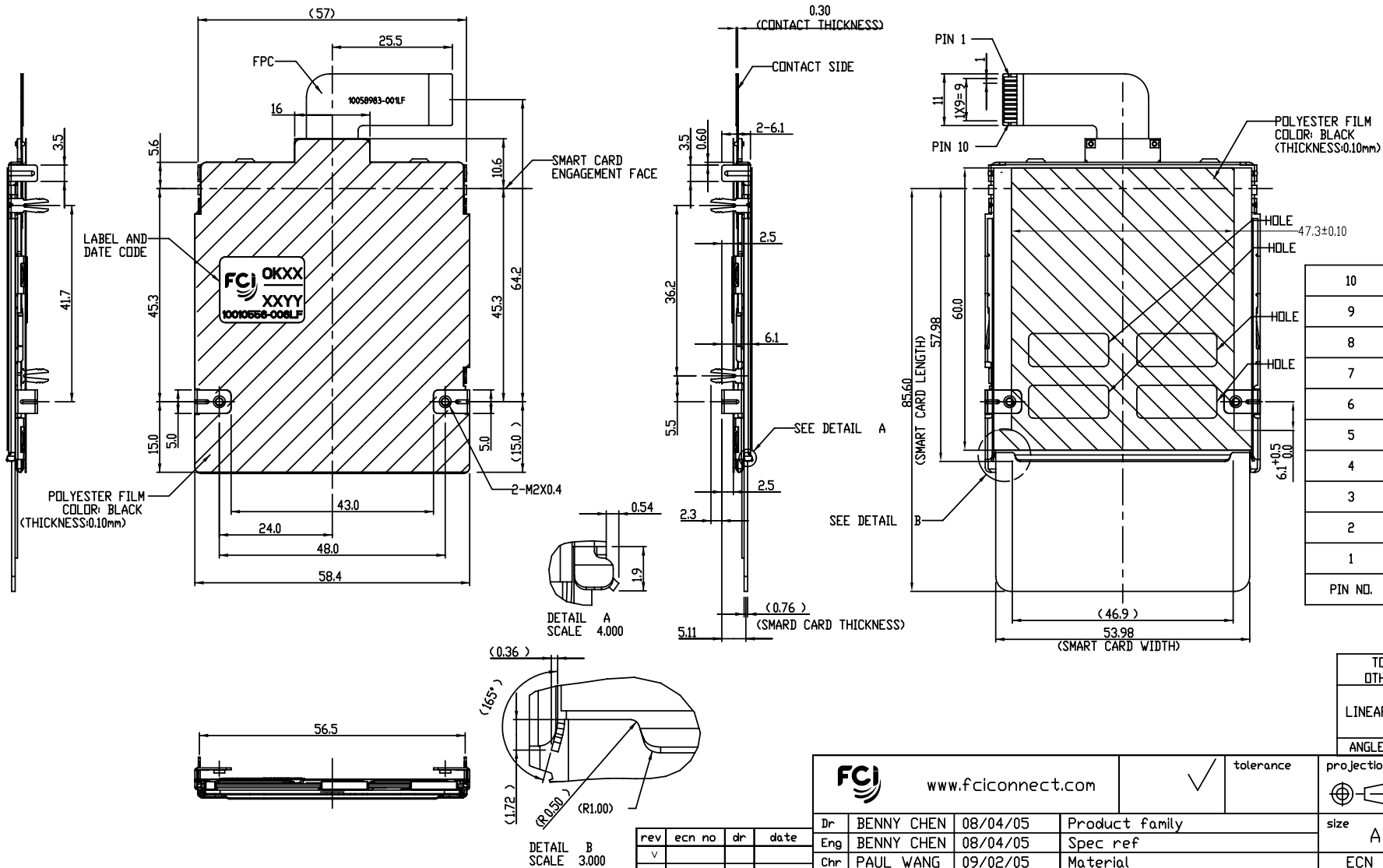
Mark with 10010556-004LF REV. In area indicated by X.....				Material				Spec ref							
				Mat code				✓		tolerance		projection 		MM 	
				Heattreat											
				Plating/Finish											
				Dr BENNY CHEN 07/06/05											
rev	ecn no	dr	date	Eng BENNY CHEN 07/06/05	Product family				size A4		Scale 0.500				
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				dwg no 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	

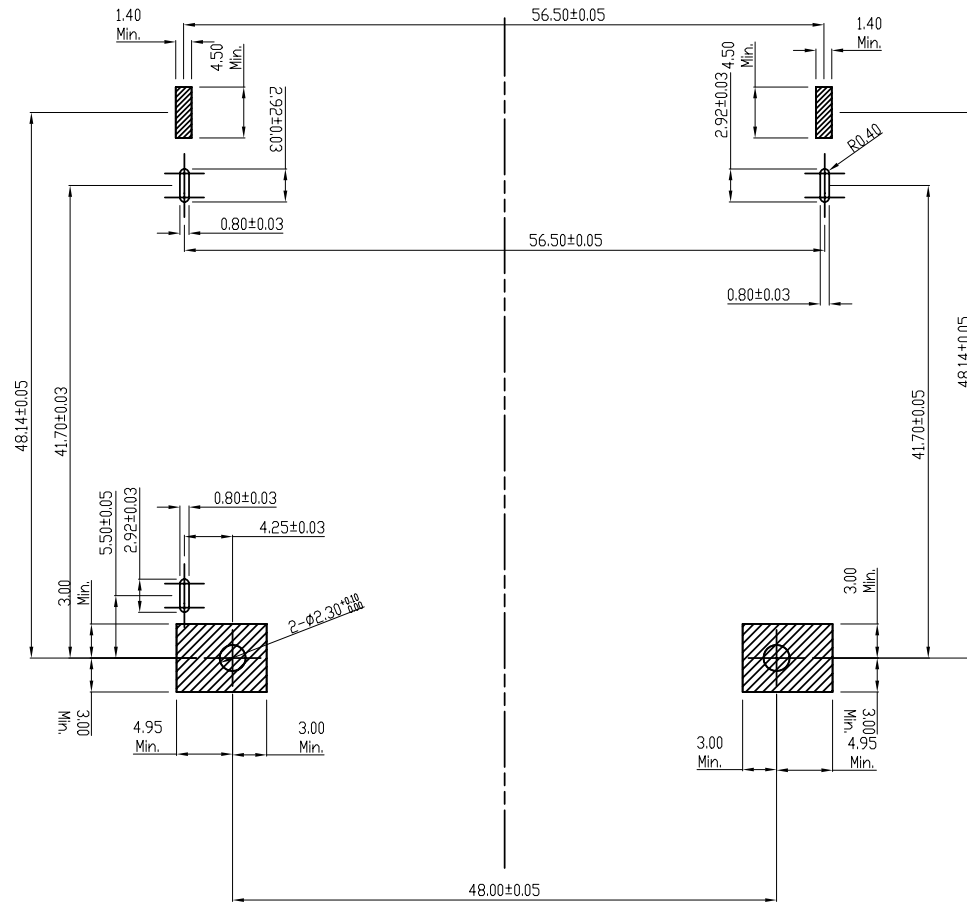
			www.fciconnect.com				tolerance						
Dr	BENNY CHEN	08/04/05	Product family						size	A4			
Eng	BENNY CHEN	08/04/05	Spec ref						Scale 1.000				
Chr	PAUL WANG	09/02/05	Material						ECN				
Appr	JOSEPH HSIA	09/02/05											
title	SMART CARD READER (FPC CABLE)						dwg no	10010556				Rev V	
	ASSEMBLY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

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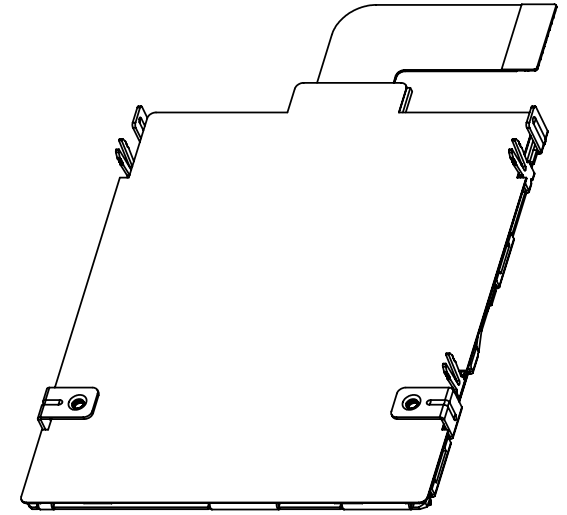


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PRODUCT NO
10010556-006LF



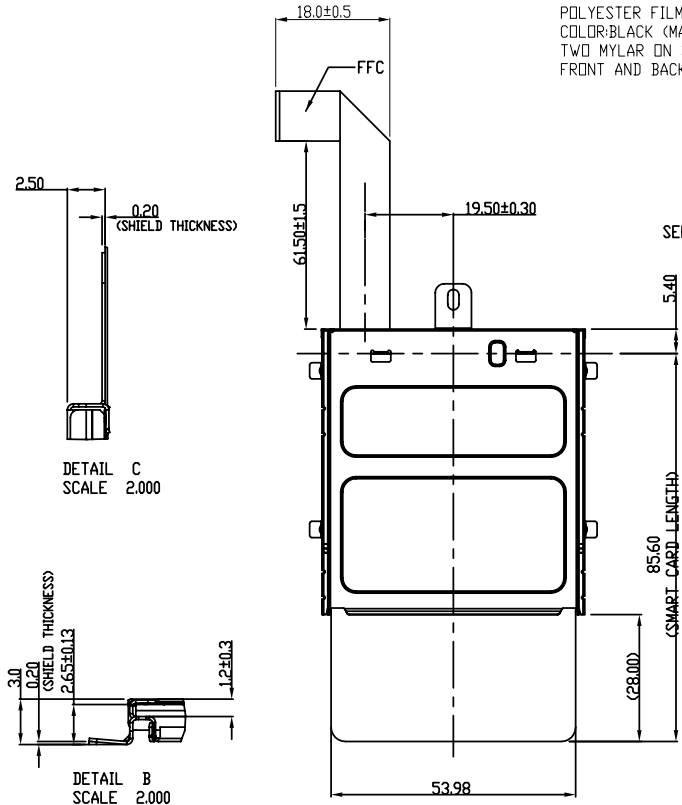
RECOMMENDED PCB LAYOUT
(PCB THICKNESS: 1.2 mm)
(MOUNTING SIDE)



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

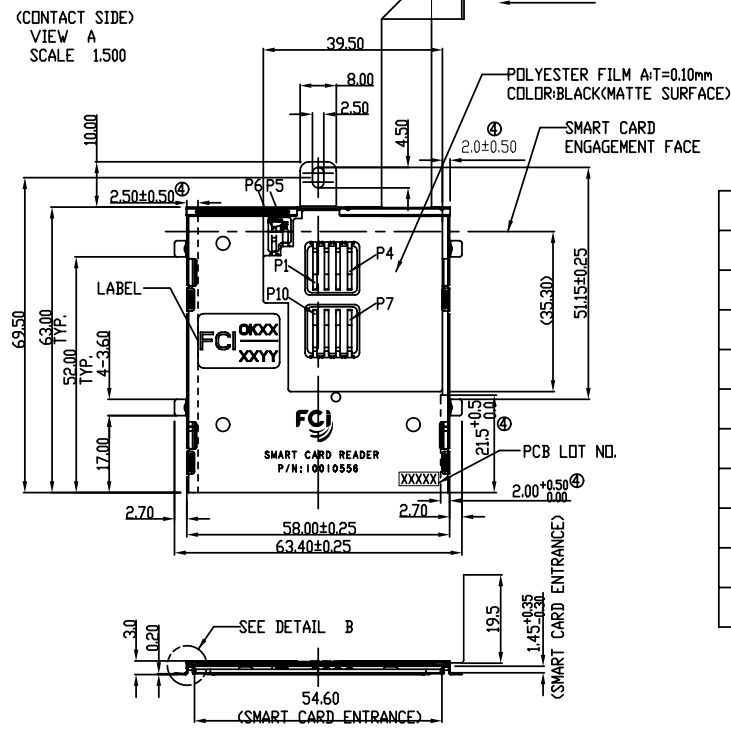
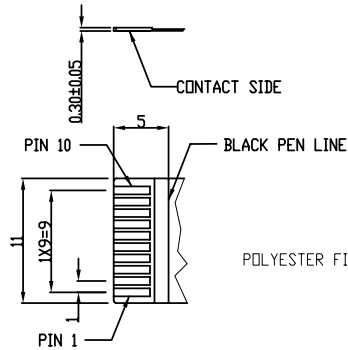
			www.fciconnect.com			tolerance	projection 		
Dr	BENNY CHEN	08/04/05	Product family			size	A4	Scale 1.000	
Eng	BENNY CHEN	08/04/05	Spec ref			ECN			
Chr	PAUL WANG	09/02/05	Material						
Appr	JOSEPH HSIA	09/02/05							
title	SMART CARD READER (FPC CABLE)					dwg no	10010556		Rev. V
	ASSEMBLY								
catalog no								sheet 7 of	

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.

SUPPORTING TAPE
POLYESTER FILM B & C: T=0.10mm
COLOR: BLACK (MATTE SURFACE)
TWO MYLAR ON SAME POSITION:
FRONT AND BACK SURFACE OF FFC



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'

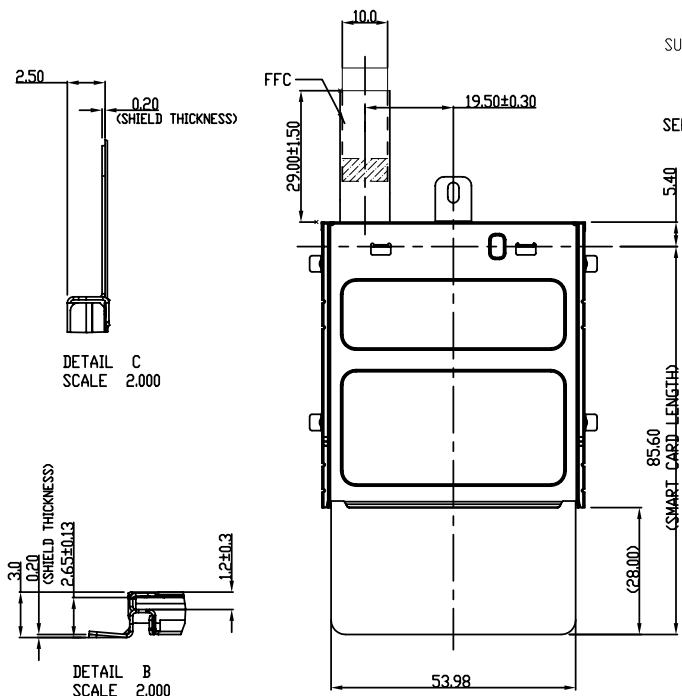
Mark with 10010556-004LF REV. In area indicated by X....				Material		Spec ref	
				Mat code		✓ tolerance	
				Heat treat		projection	
				Plating/Finish		size	
				Dr DANIEL TAO 07/05/07		A4	
				Eng DANIEL TAO 07/05/07		Scale	
				Chr DANIEL TAO 07/05/07		0.500	
				Appr JOSEPH HSIA 07/05/07		ECN	
						REL Level	
				FCI		title	
						ASSEMBLY	
						SMART CARD READER	
				Pro/E file		catalog no	
						CUSTOEMER DRAWING	
						sheet 8 of	

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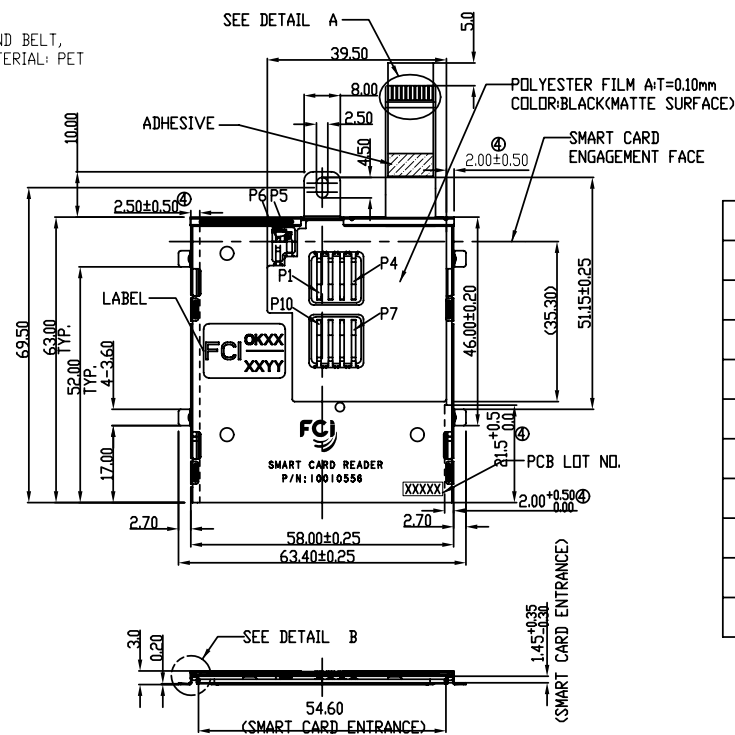
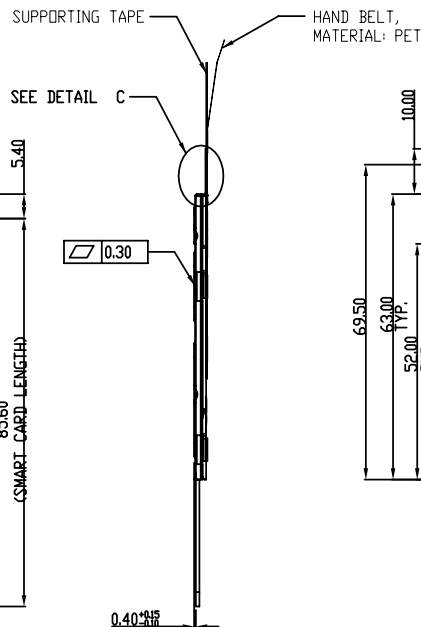
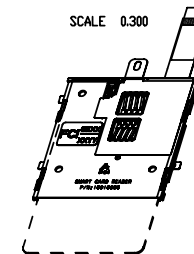
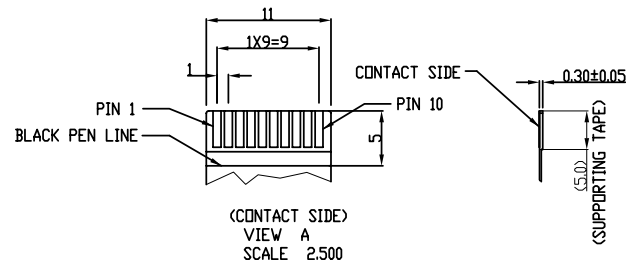


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PRODUCT NO
10010556-008LF



- 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.



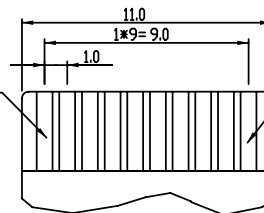
10	RFU
9	I/O
8	Vpp
7	GND
6	Sensor 2
5	Sensor 1
4	Vcc
3	Reset
2	Clock
1	RFU
PIN NO.	ASSIGNMENT

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 0.500			
				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			
								Rev. V			

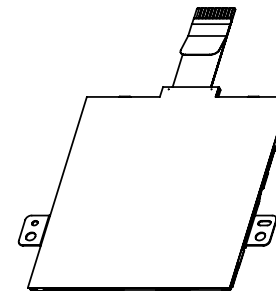
PART NUMBER
0010556-007LF

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



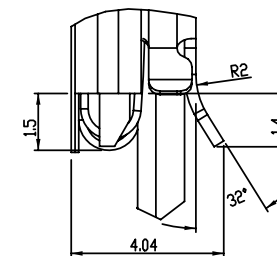
CONTACT SIDE
VIEW DIRECTION
(4.5)

DETAIL A
SCALE 3.000



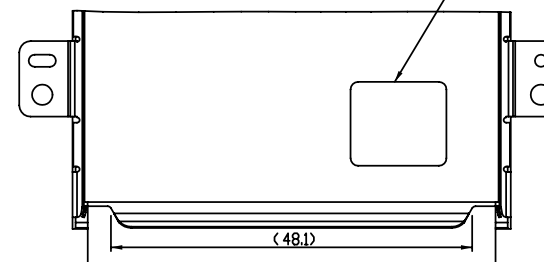
POLYESTER FILM
COLOR:BLACK
(THICKNESS:0.10mm)

POLYESTER FILM
COLOR:BLACK
(THICKNESS:0.10mm)



DETAIL B
SCALE 5.000

label refer to type t of dell's ppid



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

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

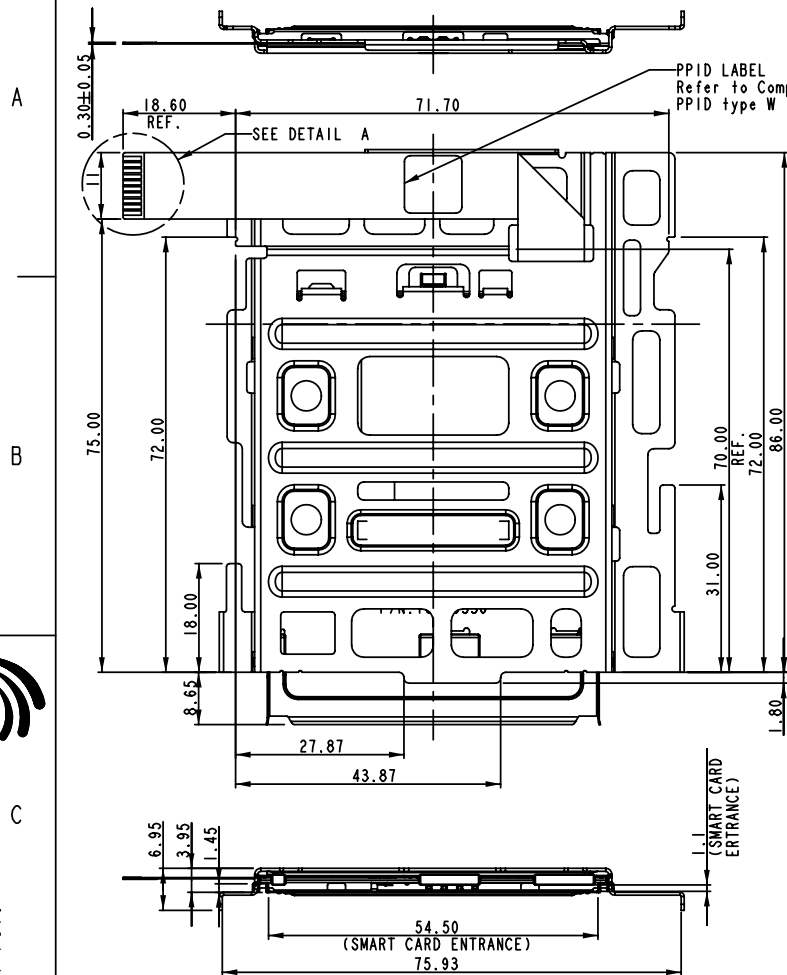


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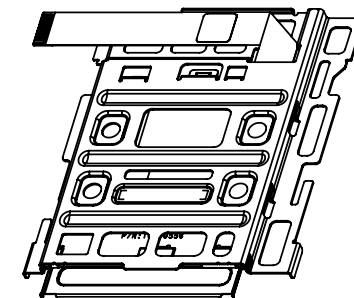
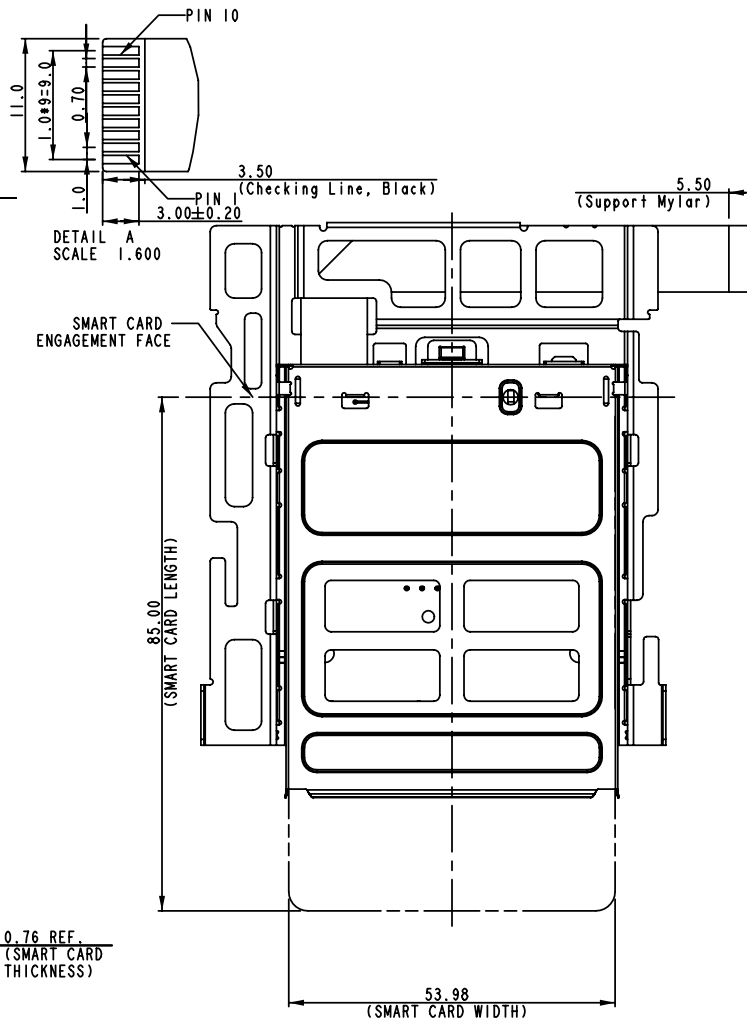


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PART NUMBER
10010556-010LF



4.45
REF.



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: 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.

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 0° ±X°		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	

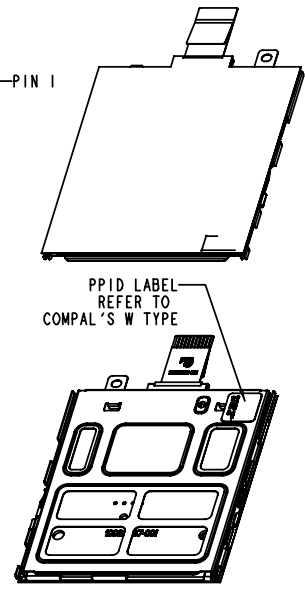
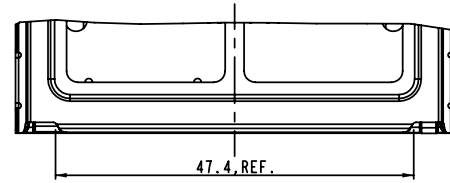
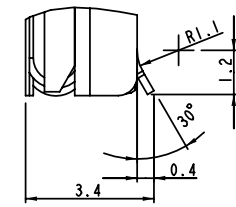
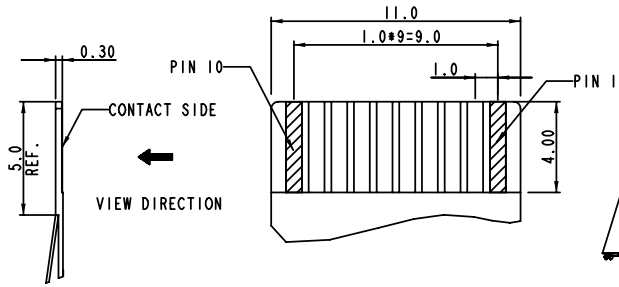
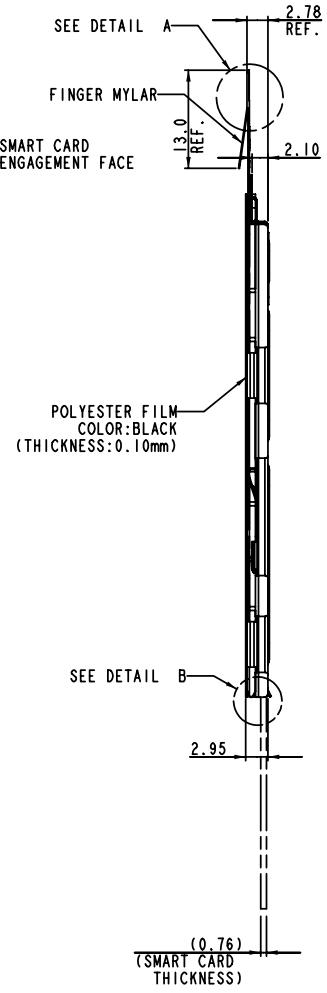
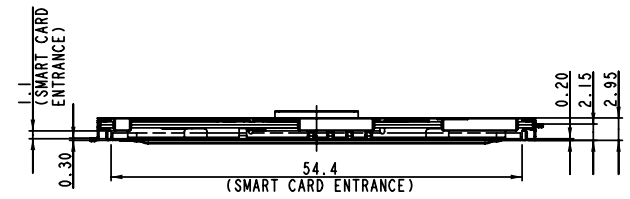
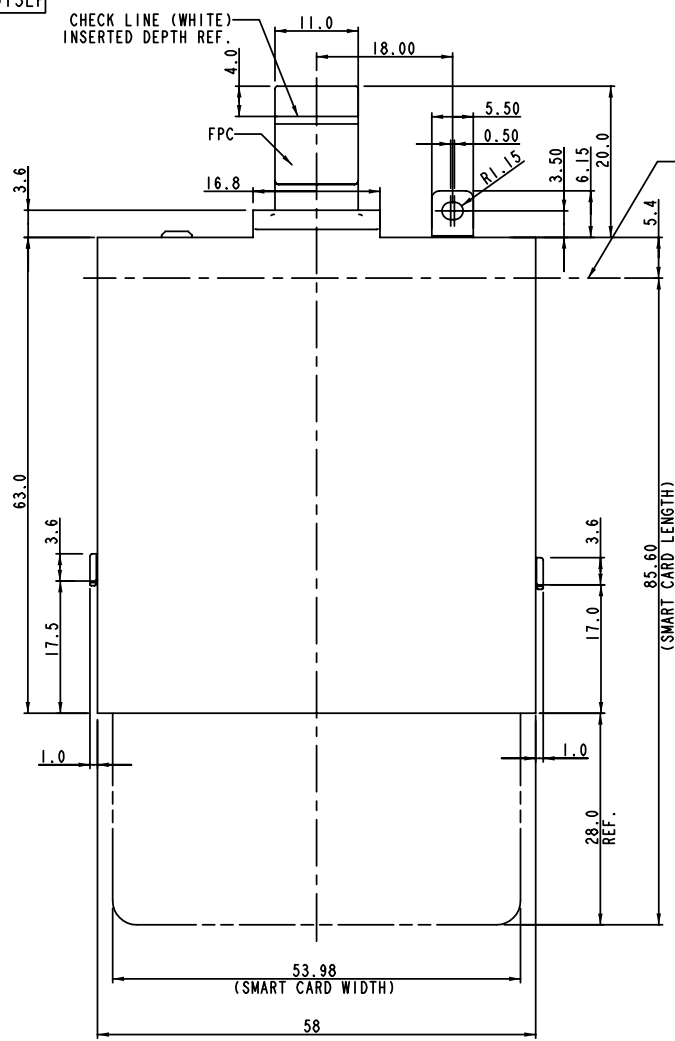
⁴ Printed: Mar 12, 2010

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	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 10010556-008LF		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 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

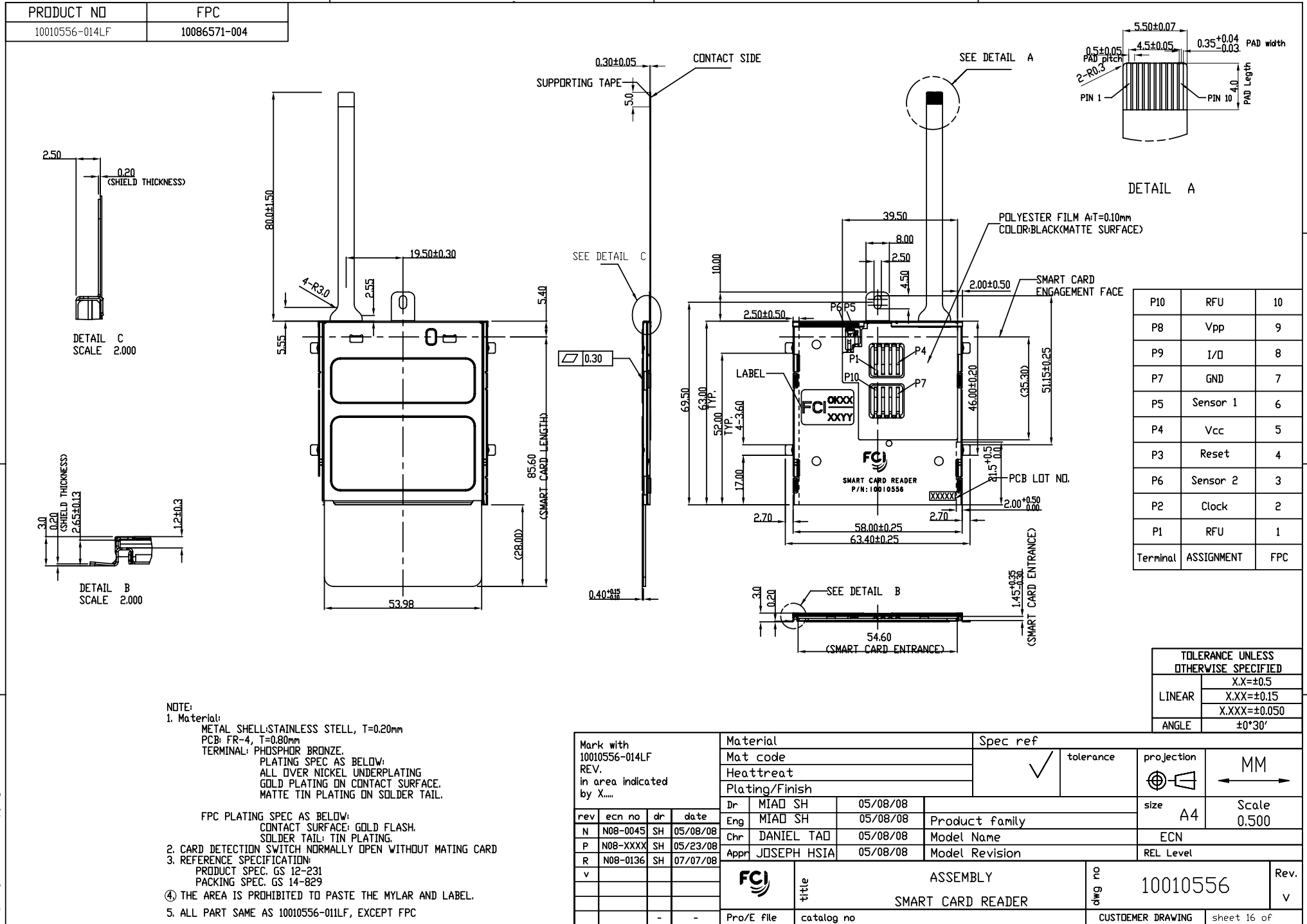
rev	ecn no	dr	date
R	N08-0136	BENNY	05/08/08
S	N08-0212	SH	10/06/08
V	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

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 *	



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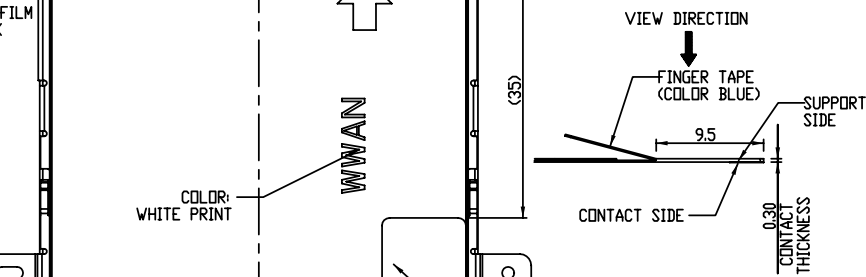
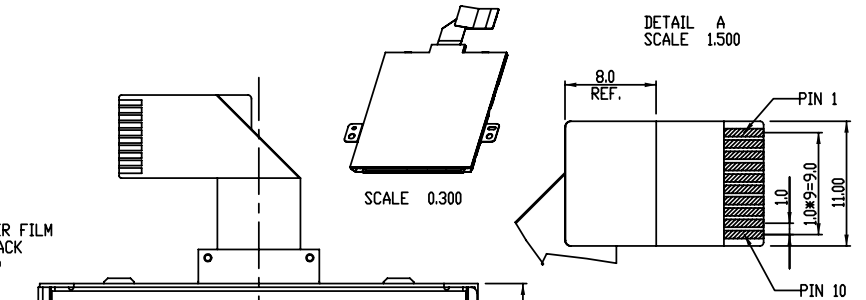
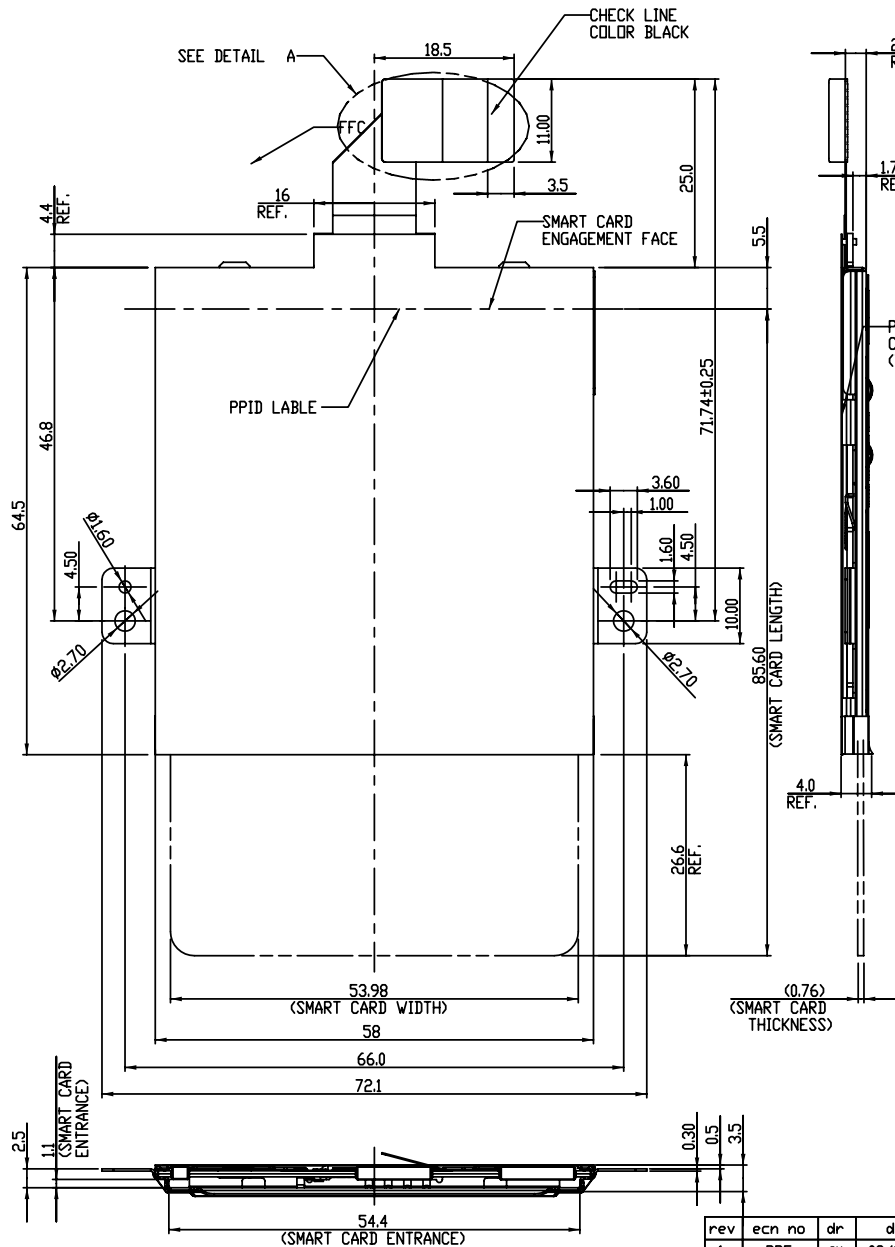
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PART NUMBER
10010556-015LF



- 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.XXX		±				
Appr	JOSEPH HSIA	04/20/09	Product family						ECN *		
			Product family						Spec ref *		
			title ASSEMBLY SMART CARD READER				dwg no 10010556				Rev. V
			catalog no				* CUSTOMER DRAWING				sheet 17 of

REV F - 2006-04-17

1

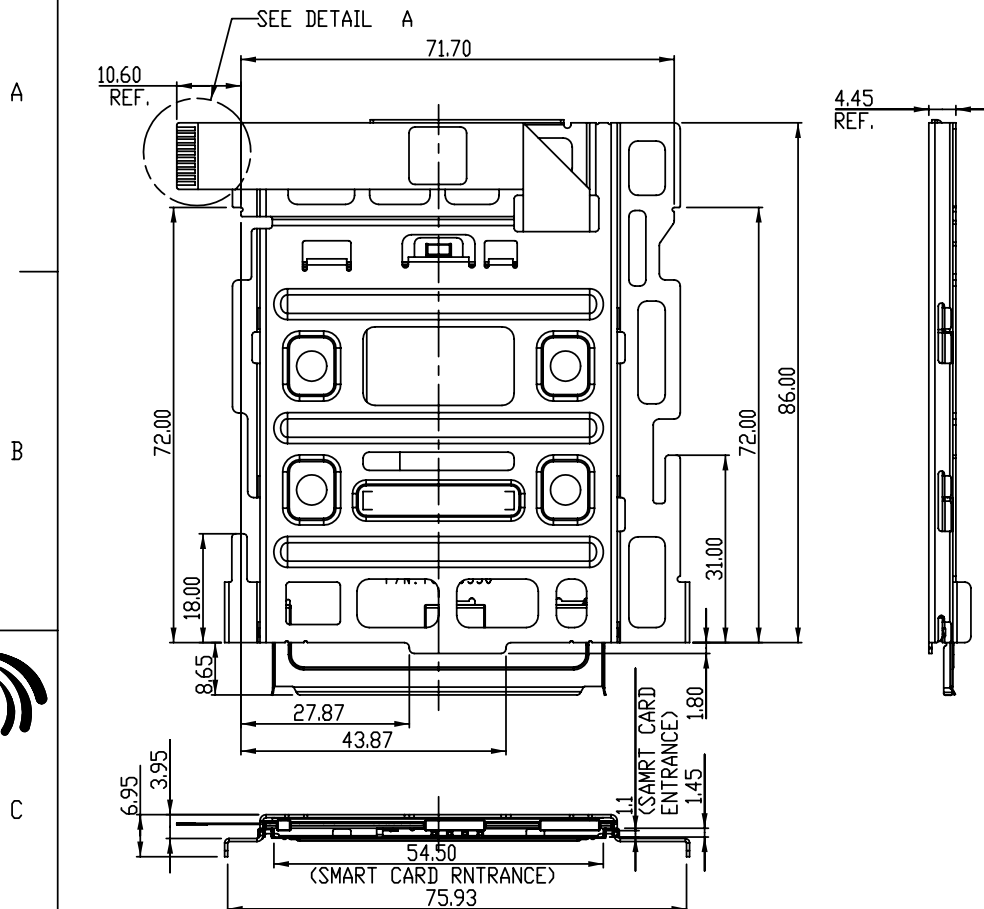
2

3 PDM: Rev:V

STATUS: Released

4 Printed: Mar 12, 2010

PRODUCT NO.
10010556-016LF



NOTE:

1. Material:

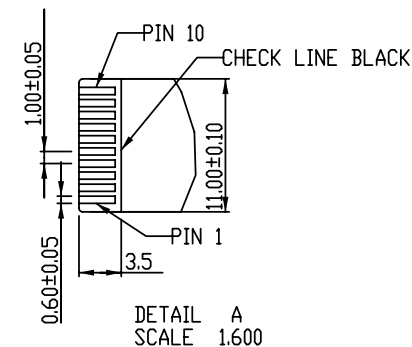
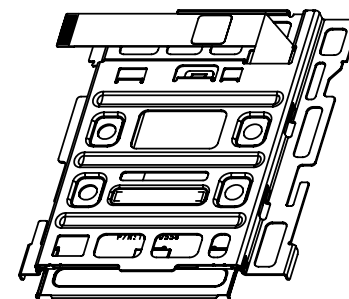
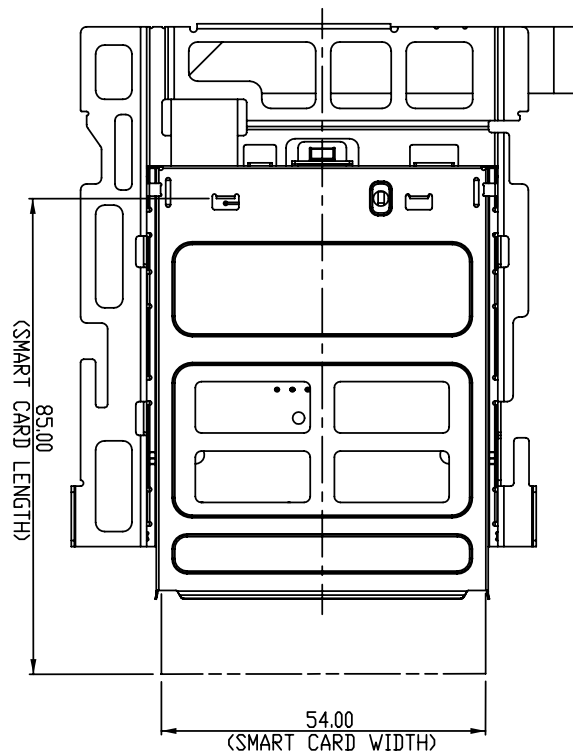
METAL SHELL: STAINLESS STEEL
BRACKET: STEEL
GUIDE BLOCK: THERMOPLASTIC, UL94V-0.
PCB: FR-4, T=0.80mm, UL94V-0.
FFC: POLYESTER, UL20624.
PLATING SPEC AS BELOW:
CONTACT SIDE PLATING: GOLD.
SOLDER SIDE PLATING: Pure Tin.
TERMINAL: COPPER ALLOY.

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

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D

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

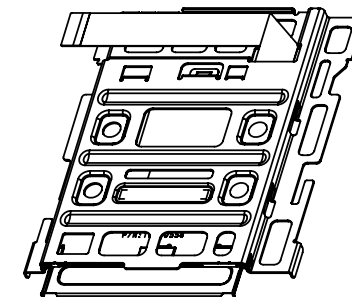
www.fciconnect.com			surface - 		tolerance std		projection 				
			TOLERANCES UNLESS OTHERWISE SPECIFIED								
Dr	MIAD SH	04/14/09	ANGULAR		LINEAR	0.X	±0.3	size A4	Scale 1.000		
Eng	MIAD SH	04/14/09				0.XX	±0.2				
Chr	TAD DANIEL	04/14/09	0°	±2°		0.XXX	±0.1	ECN			
Appr	TAD DANIEL	04/14/09	Product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

PRODUCT NO.
10010556-017LF

CHECK LINE
COLOR BLACK

4.45
REF.

SEE DETAIL A



A

B

C

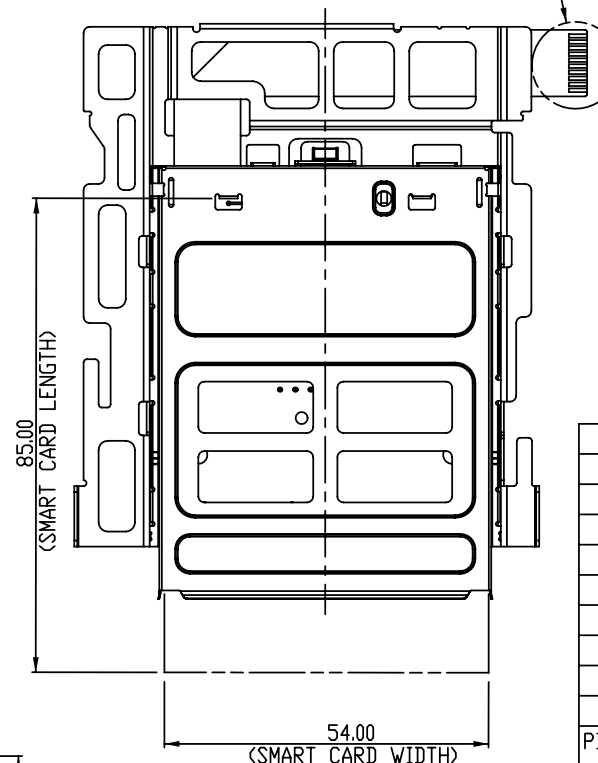
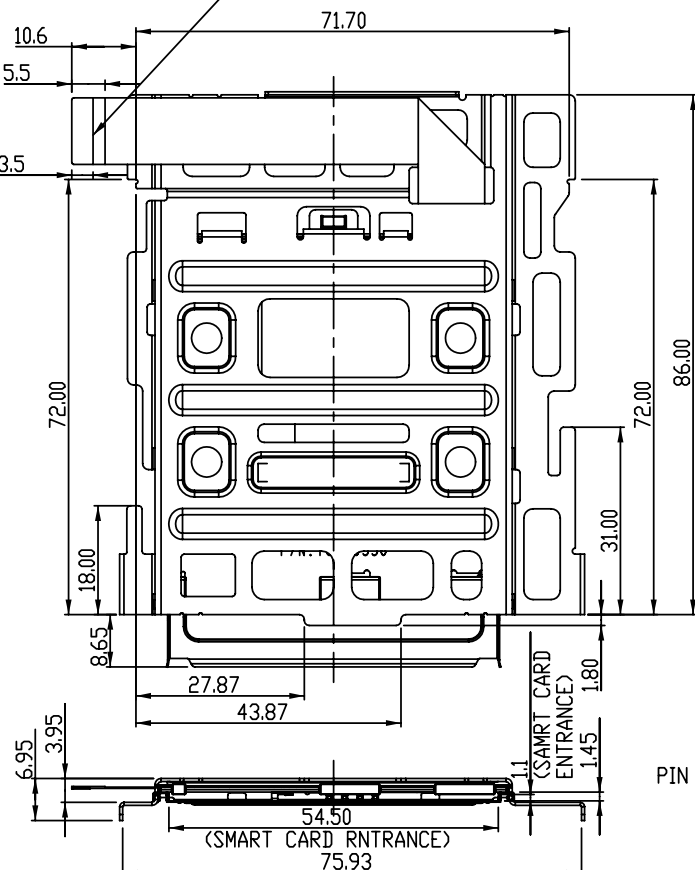
D

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

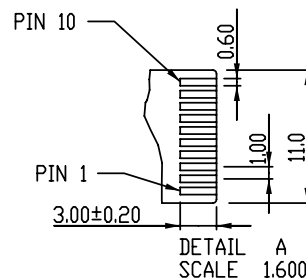
NOTE:

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.



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 1.000		
Eng	MIAD SH	04/14/09			0.XX	±0.2				
Chr	TAD DANIEL	04/14/09			0.XXX	±0.1				
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	



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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.

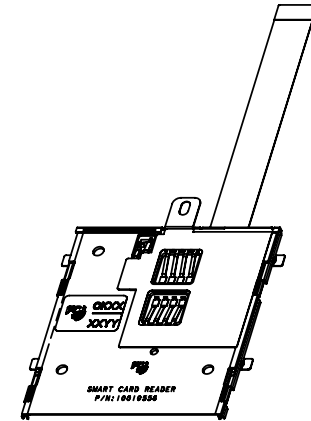
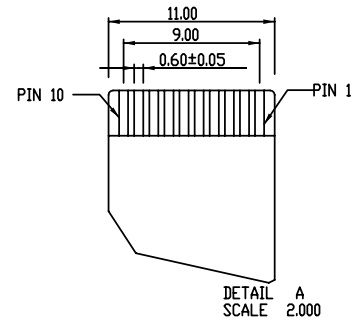
SOLDER TAIL: TIN PLATING.

2. CARD DETECTION SWITCH NORMALLY OPEN WITHOUT MATING CARD

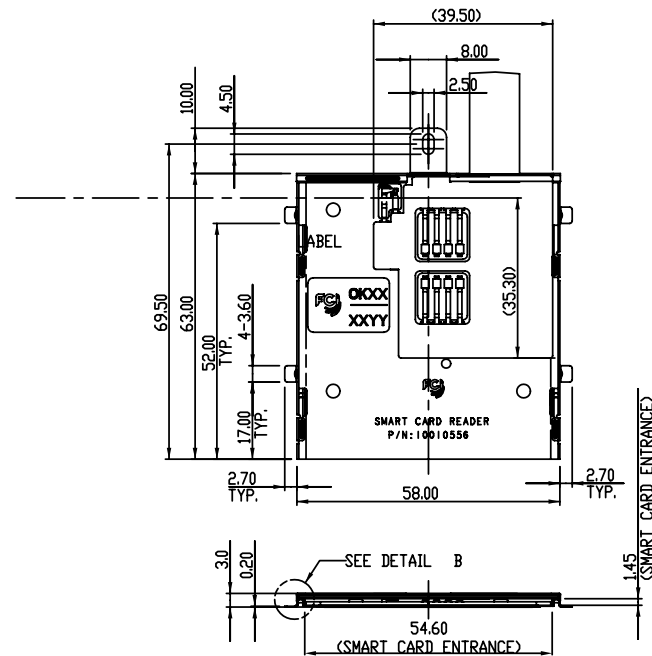
3. REFERENCE SPECIFICATION:

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°

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				ou dwg	10010556		Rev. V	
		catalog no								sheet 20 of	