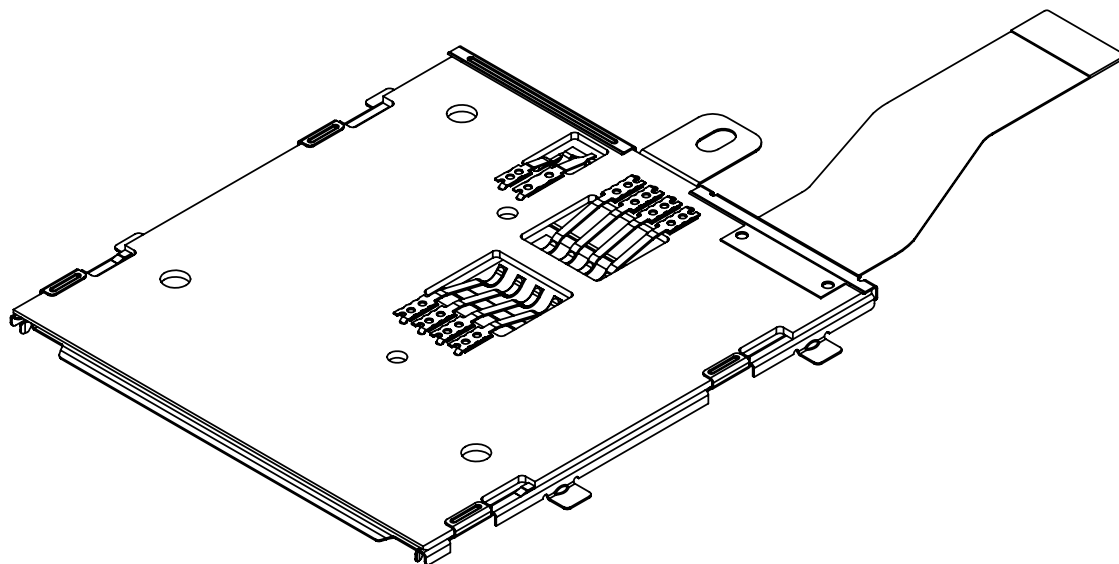




PRODUCT NO.	FPC	PACKAGING	COMPONENTS	LEAD FREE	PCB COLOR
10010556-002LF	10010559-002LF	10017475-02-002	ELEC. PARTS	YES	BLUE
10010556-003LF	10105325-001	10017475-02-009	N/A	YES	BLACK
10010556-004LF	10056226-002LF(FFC)	10017475-02-004	N/A	YES	BLUE
10010556-006LF	10058983-001LF	10017475-02-003	N/A	YES	BLACK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

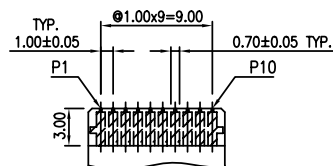


NOTE :

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			sheet 1 of 20	
				appd	JENN.TSAO 6/7'02						
sheet index	revision sheet										

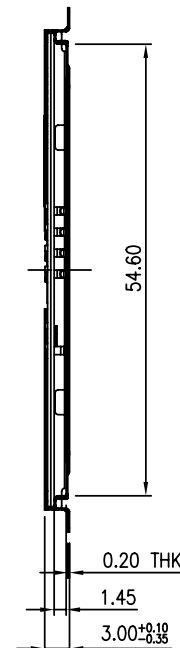
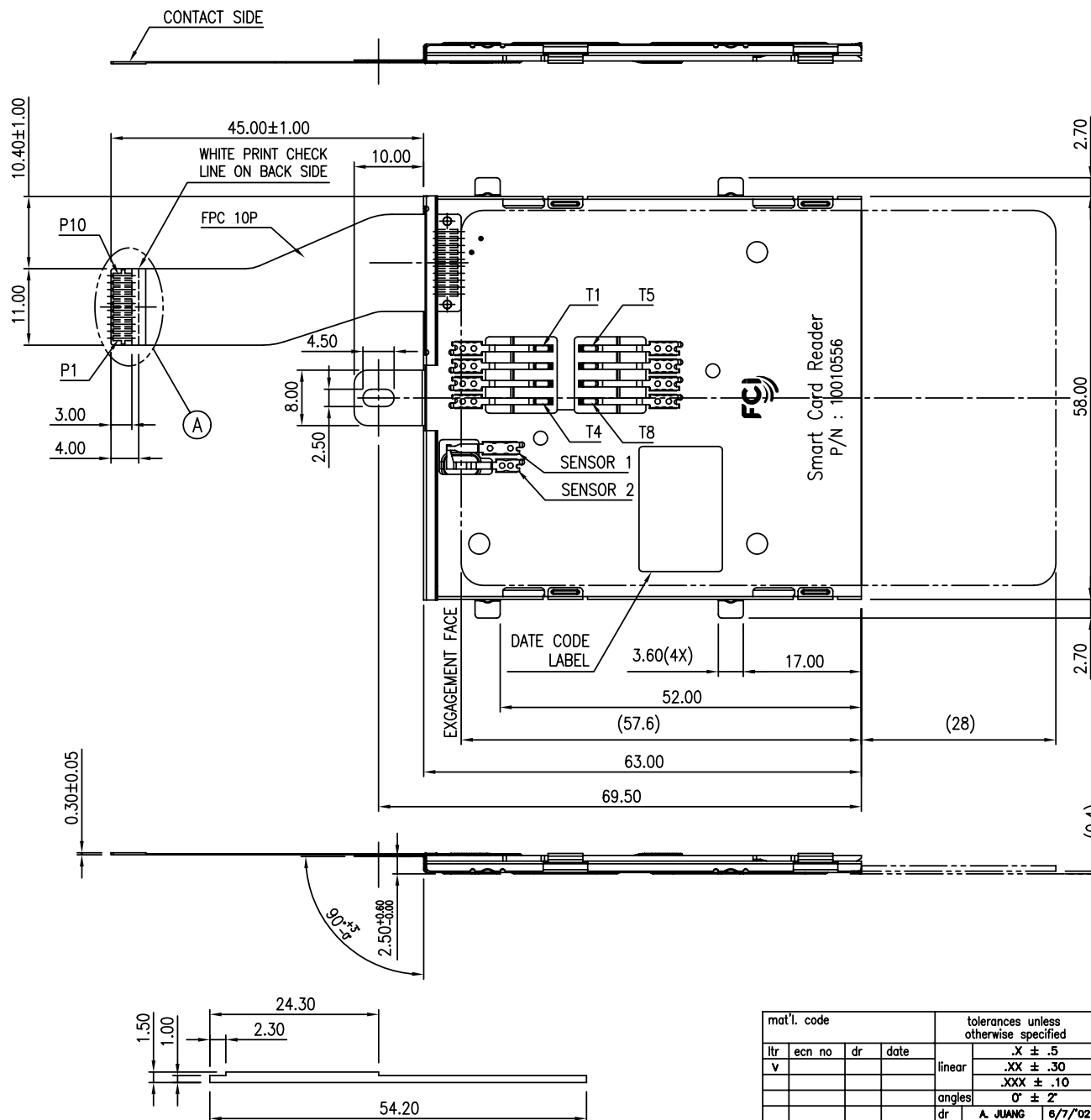
PRODUCT NO.
10010556-002LF



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

form no. 7530-001-103



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

PDM: Rev:V

STATUS: Released

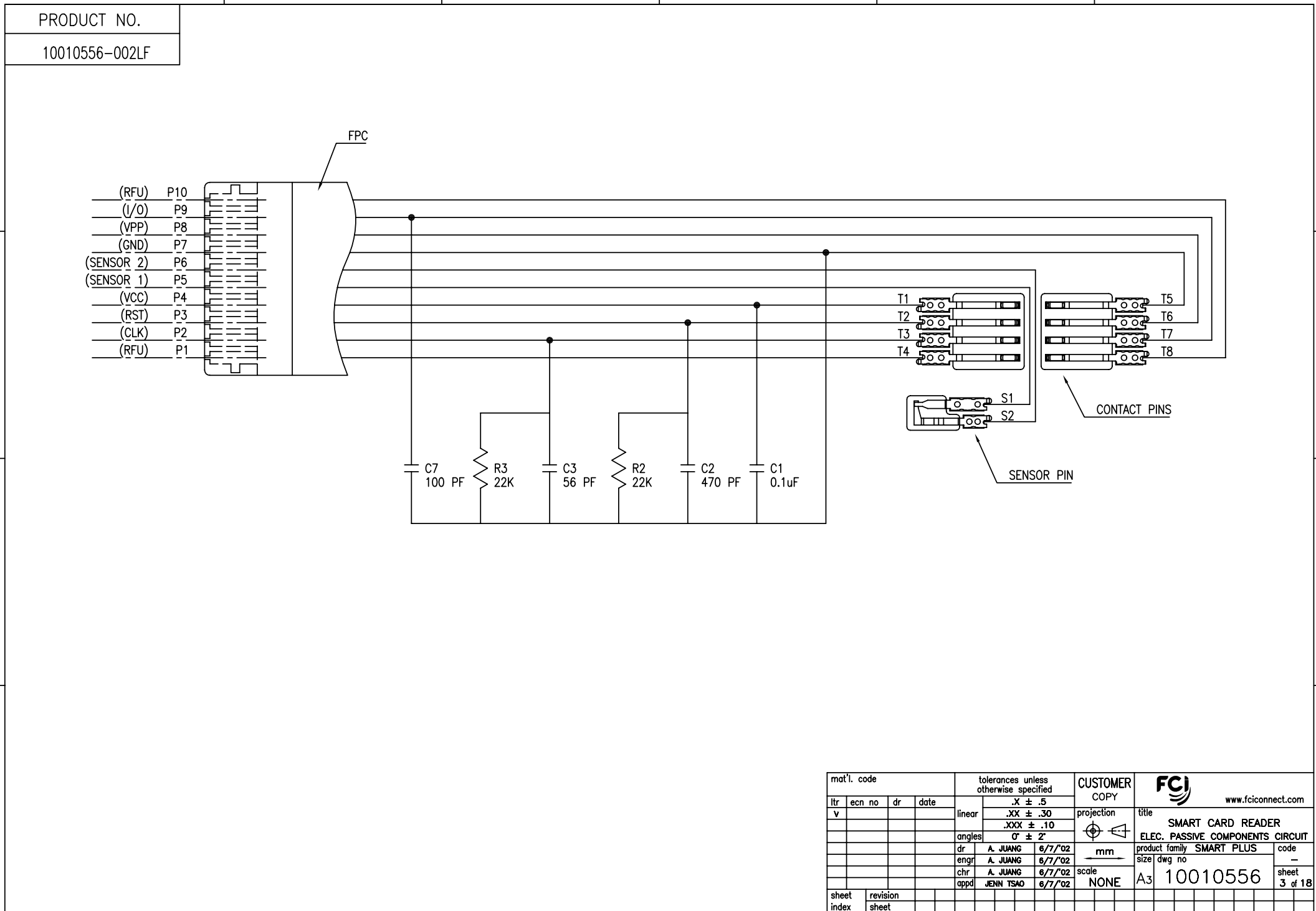
Printed: Mar 12, 2010

6

Tous droits strictement réservés. Reproduction ou communication a des tiers interdite sous quelque forme que ce soit sans autorisation écrite du propriétaire.
Propriété de © FCI ELECTRONICS.



All rights strictly reserved. Reproduction or issue to third parties in any form whatever is not permitted without written authority from the proprietor.
Copyright © FCI ELECTRONICS INC.



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

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

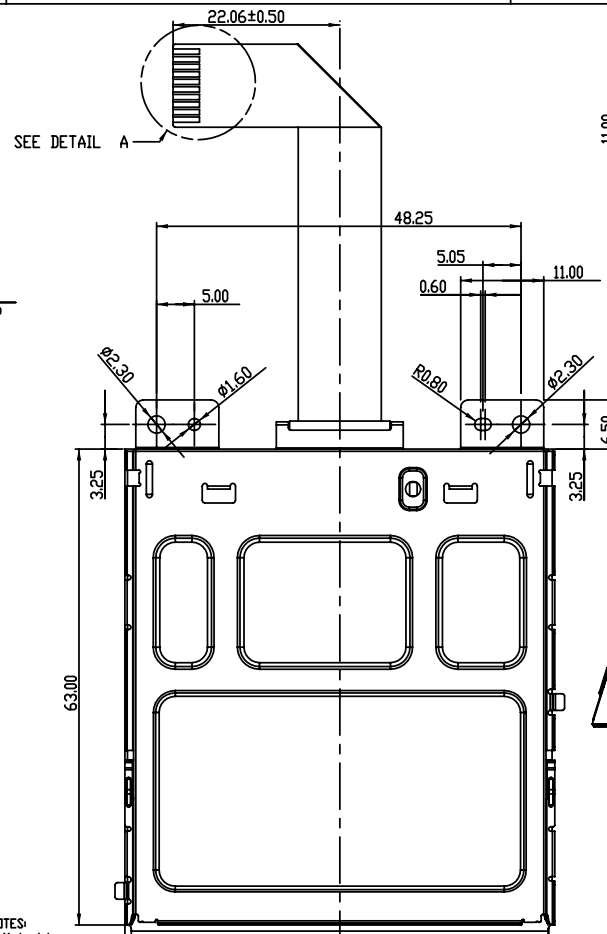
16.8

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

size
A4

Scale
0.500

0.XX

±0.15

ECN

*

0.XXX

±X

Spec ref

*

Product family

Rev.

V



title

ASSEMBLY

SMART CARD READER

catalog no

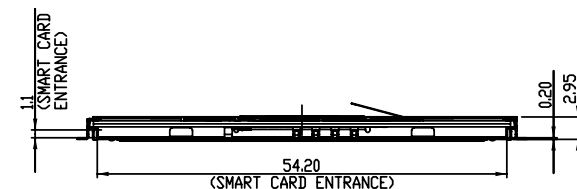
dwg no

10010556

* 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

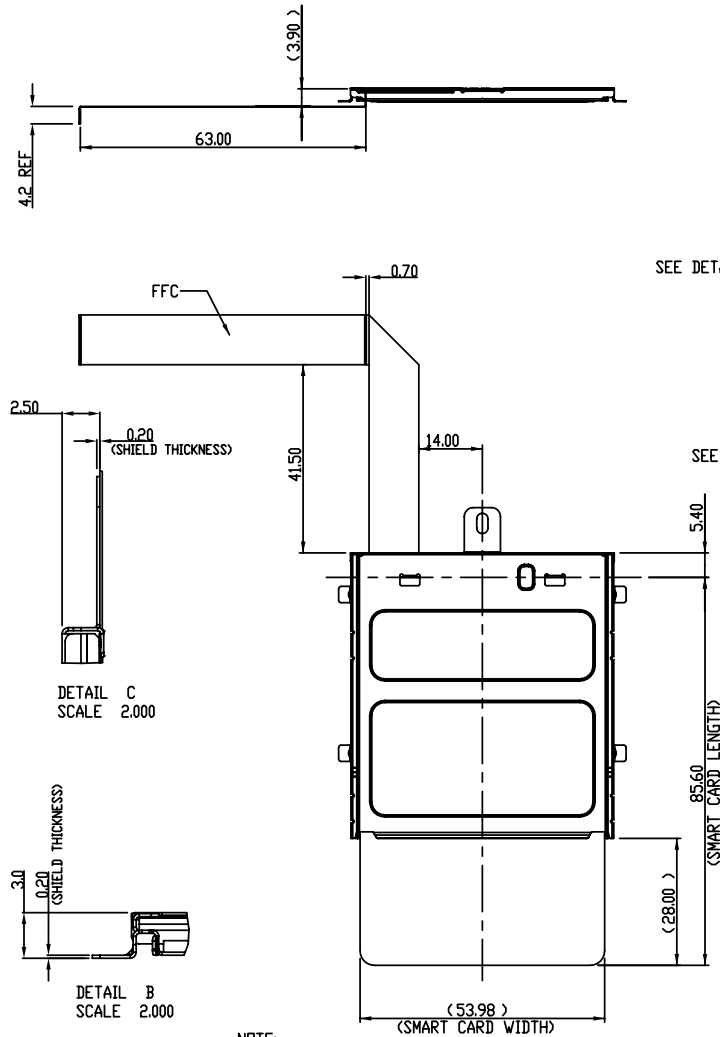
STATUS: Released

4 Printed: Mar 12, 2010



Copyright FCI.

PRODUCT NO
10010556-004LF



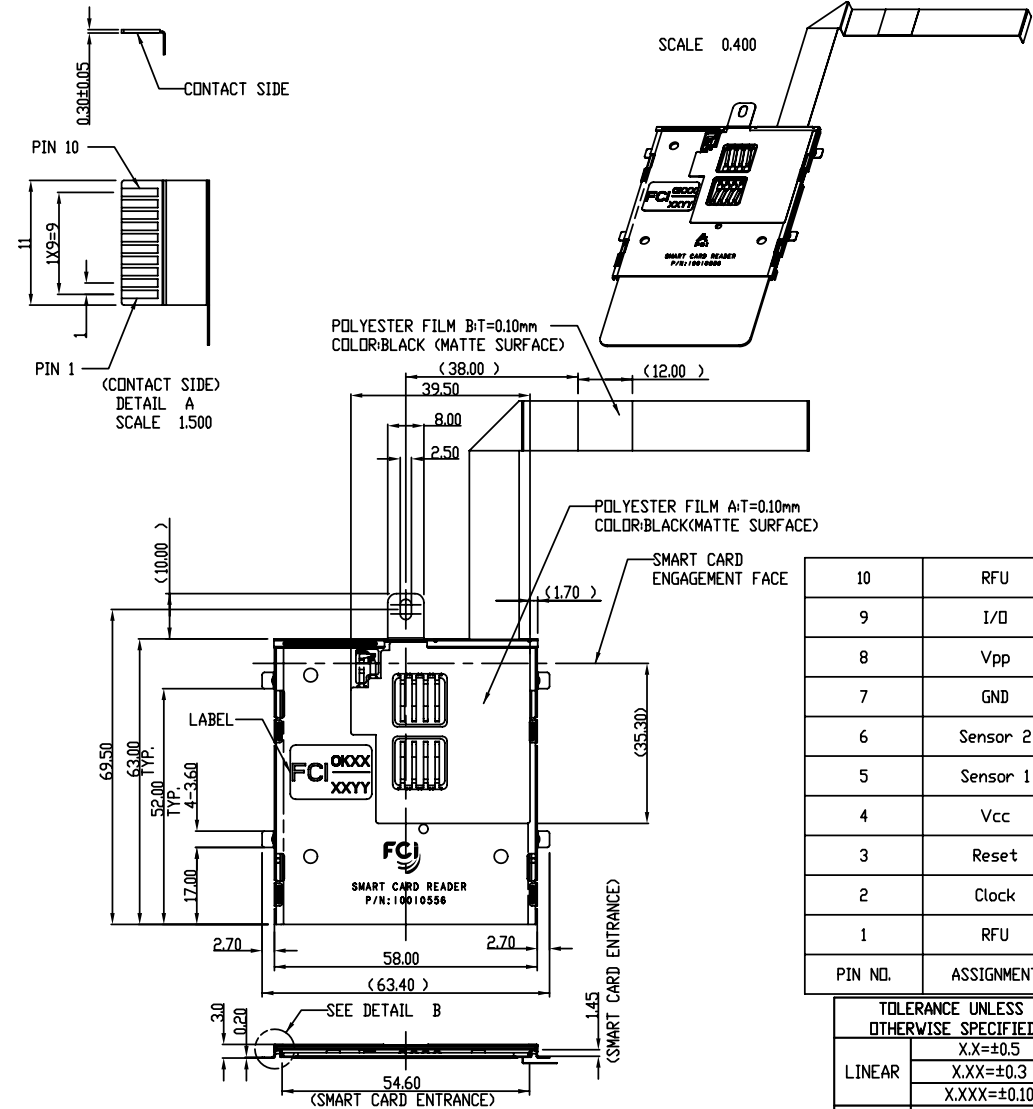
NOTE:

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



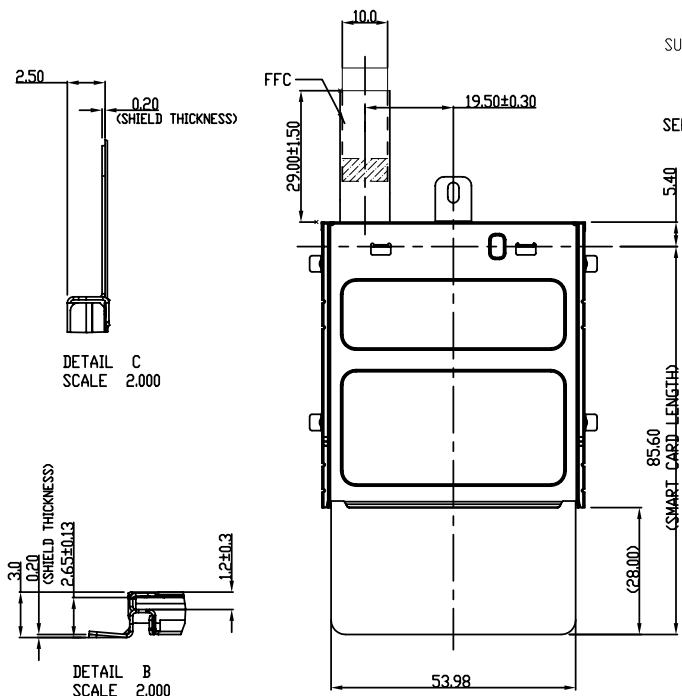
10	RFU
9	I/O
8	Vpp
7	GND
6	Sensor 2
5	Sensor 1
4	VCC
3	Reset
2	Clock
1	RFU
PIN NO.	ASSIGNMENT

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

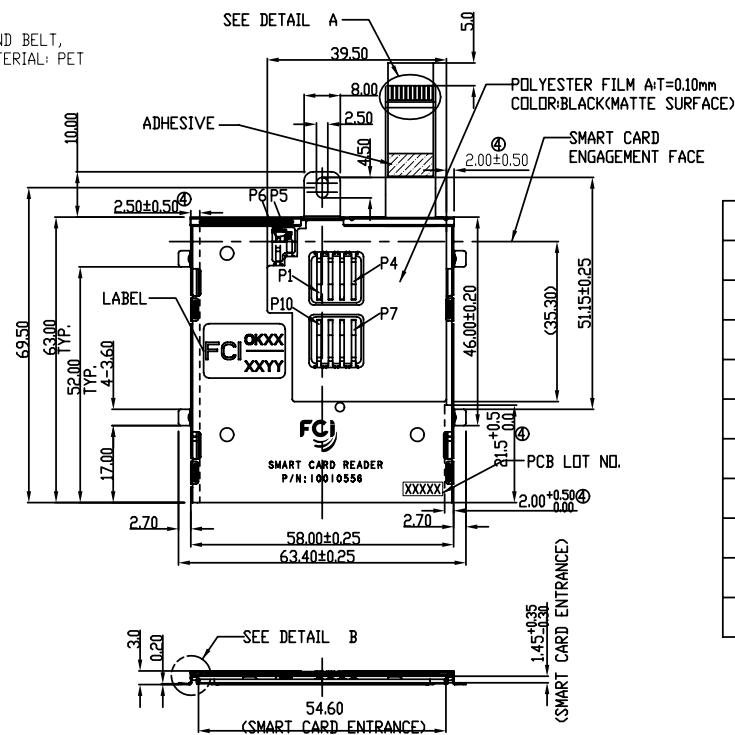
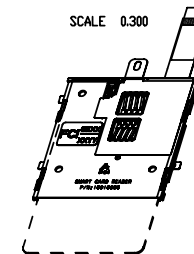
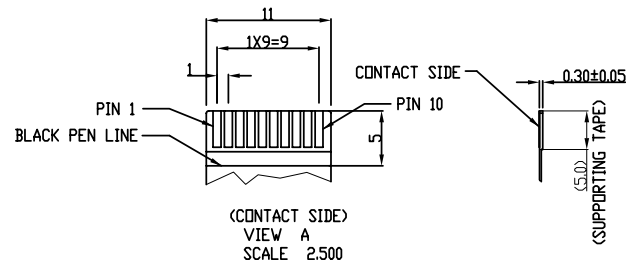
Mark with 10010556-004LF REV. In area indicated by X.....				Material		Spec ref							
				Mat code		✓		tolerance		projection		MM	
				Heatreat									
				Plating/Finish									
				rev	ecn no	dr	date	Dr	BENNY CHEN	07/06/05			size
V				Eng	BENNY CHEN	07/06/05	Product family						
				Chr	Paul Wang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

4 Printed: Mar 12, 2010

PRODUCT NO
10010556-008LF



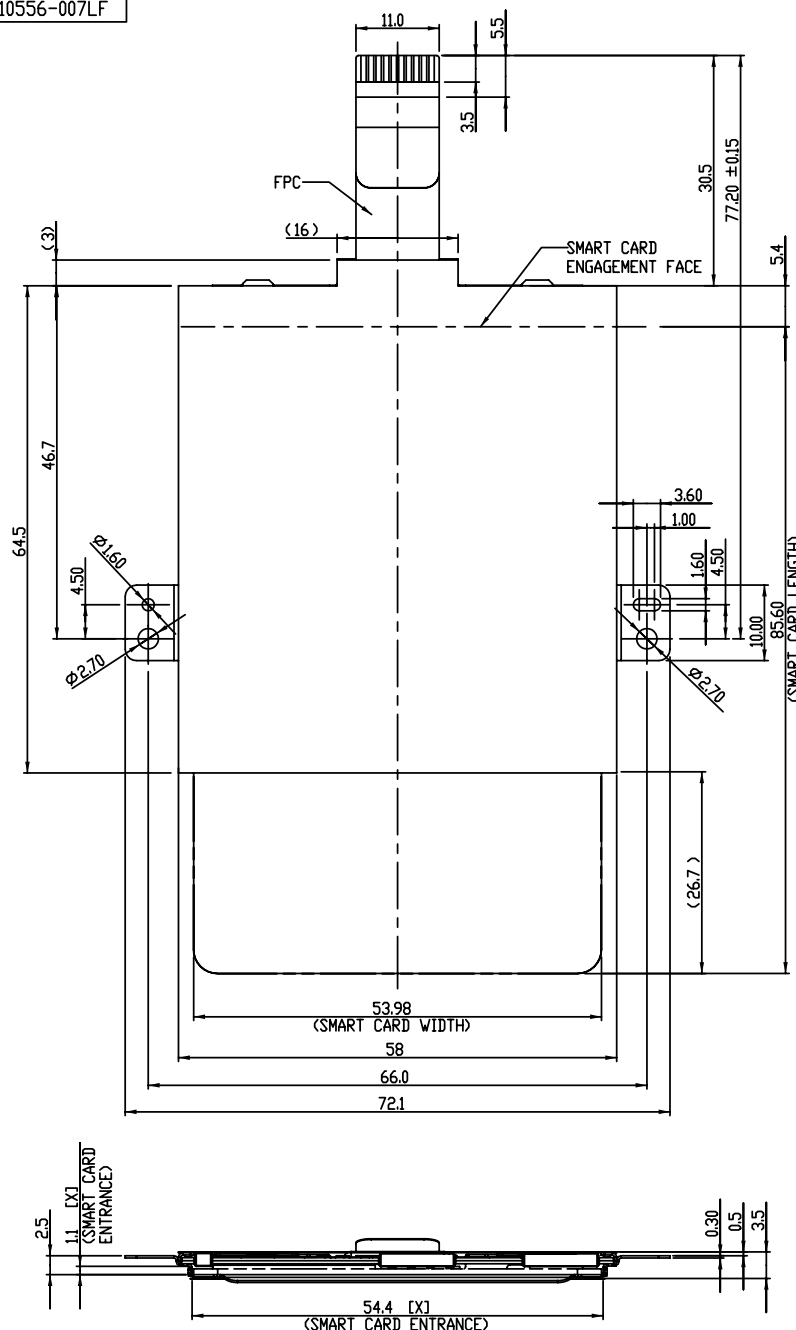
- NOTE:
1. Material:
METAL SHELL: STAINLESS STEEL, T=0.20mm
PCB: FR-4, T=0.80mm
TERMINAL: PHOSPHOR BRONZE.
PLATING SPEC AS BELOW:
ALL OVER NICKEL UNDERPLATING
GOLD PLATING ON CONTACT SURFACE.
MATTE TIN PLATING ON SOLDER TAIL.
FLEXIBLE FLAT CABLE: TOTAL LENGTH=33.5±1mm
PLATING SPEC AS BELOW:
CONTACT SURFACE: 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=±0.5 X.XX=±0.3 X.XXX=±0.10
ANGLE	±0°30'

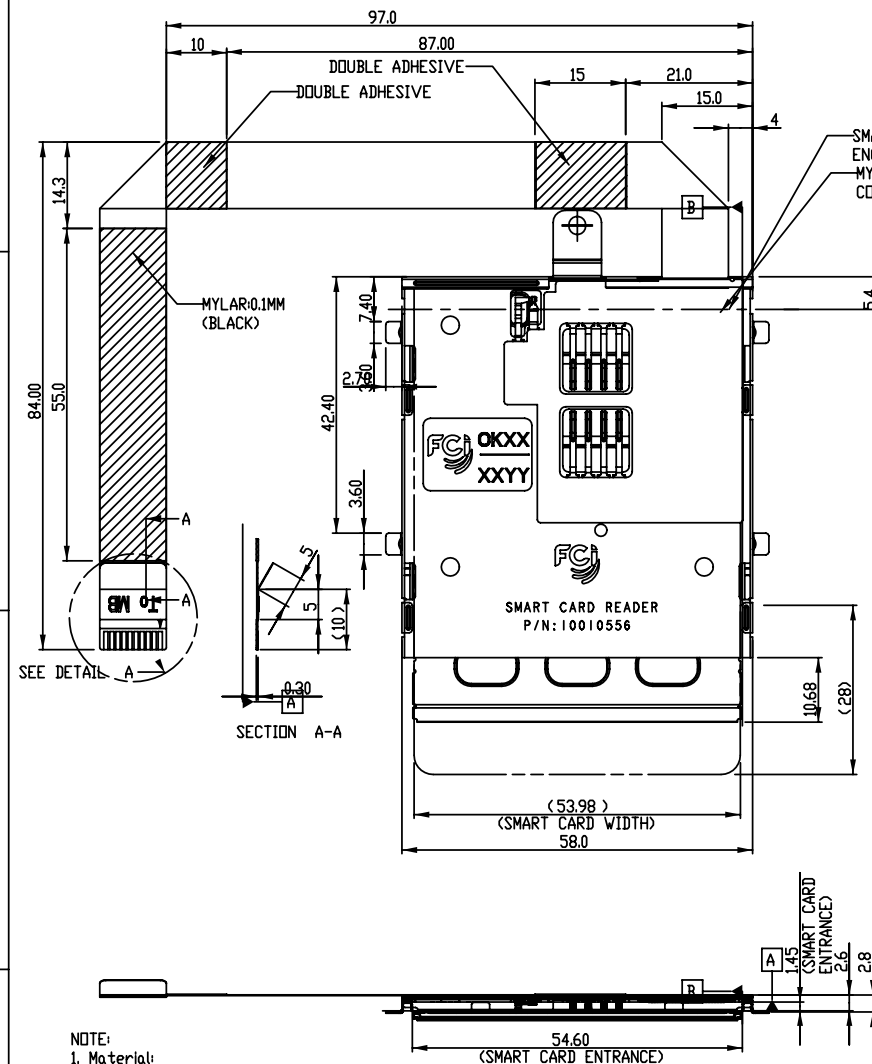
Mark with 10010556-004LF REV. in area indicated by X.....				Material				Spec ref					
				Mat code				✓	tolerance	projection 	MM 		
				Heattreat									
				Plating/Finish									
				Dr DANIEL TAO 07/05/07									
rev	ecn no	dr	date	Eng	DANIEL TAO	07/05/07	Product family			size	A4	Scale	0.500
V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





Copyright FCI.

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

ADHESIVE AREA
(STICKED BETWEEN
INTERNAL SURFACES)

SMART CARD
ENGAGEMENT FACE
MYLAR; T=0.10mm
COLOR: BLACK

ADHESIVE AREA
(STICKED BETWEEN
INTERNAL SURFACES)

ADHESIVE AREA
(STICKED BETWEEN
INTERNAL SURFACES)

SCALE 0.350

MYLAR 0.1MM
(BLACK)

DETAIL B
SCALE 2.000

DETAIL A
SCALE 2.000

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

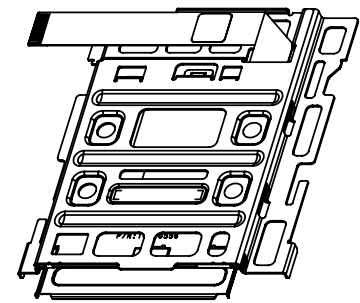
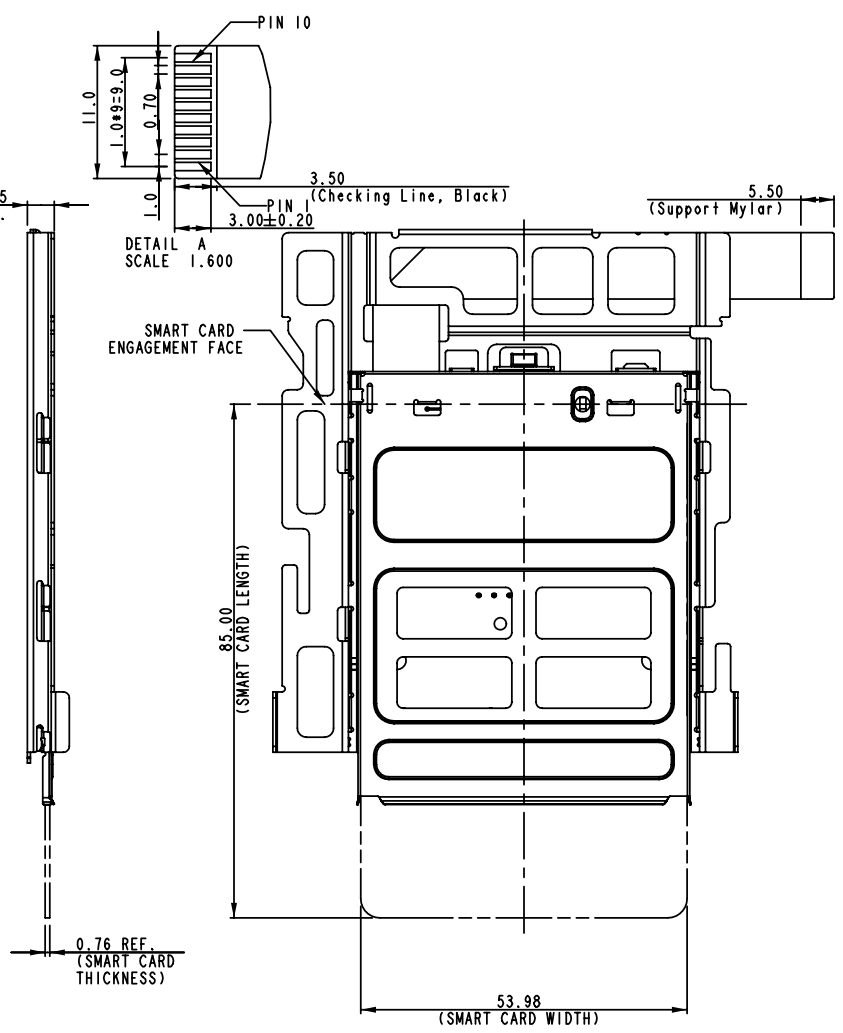
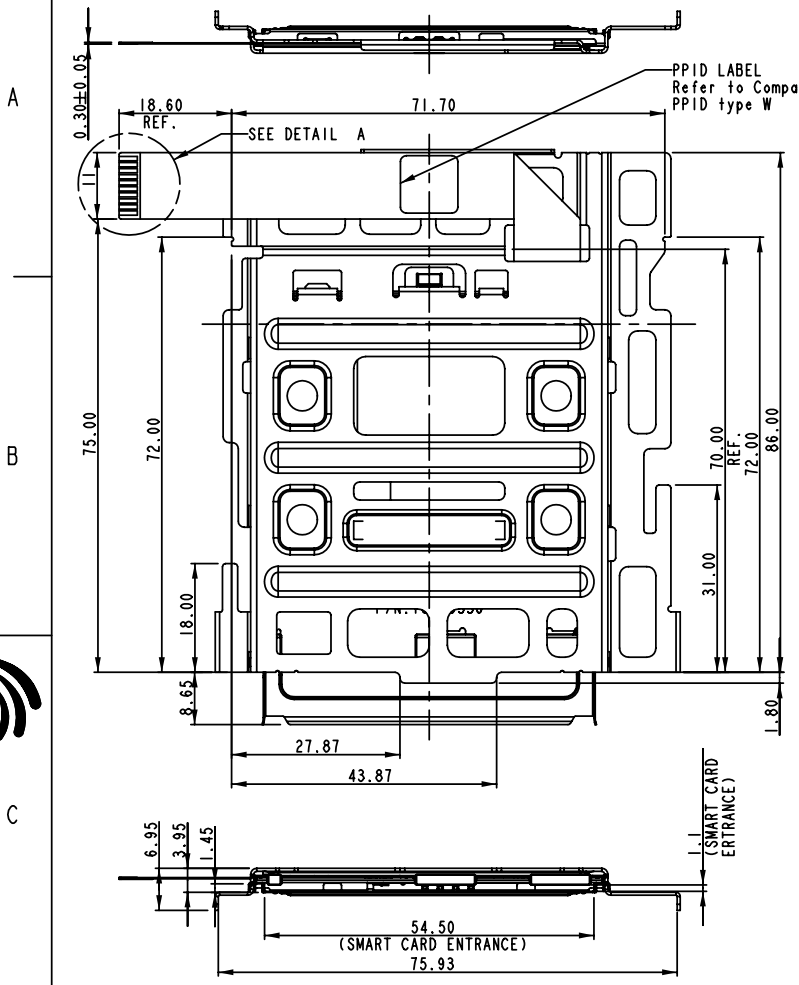
rev	ecn no	dr	date
P	N08-0093	SH	06/11/08
V	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

www.fciconnect.com			surface X		tolerance std X X		projection 		MM 		
			TOLERANCES UNLESS OTHERWISE SPECIFIED								
Dr	BENNY CHEN	10/24/07	ANGULAR		LINEAR		0.X	±0.4	size A4	Scale 0.500	
Eng	BENNY CHEN	10/24/07					0.XX	±0.25			
Chr	PAUL WANG	12/15/07	0°	±X°			0.XXX	±X	ECN	*	
Appr	JOSEPH HSIA	12/15/07	Product family						Spec ref		*
		title ASSEMBLY SMART CARD READER					dwg no 10010556		Rev. V		
		catalog no					* CUSTOMER DRAWING		sheet 11 of		



Copyright FCI.

PART NUMBER
10010556-010LF



SCALE 0.500

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	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	

⁴ Printed: Mar 12, 2010

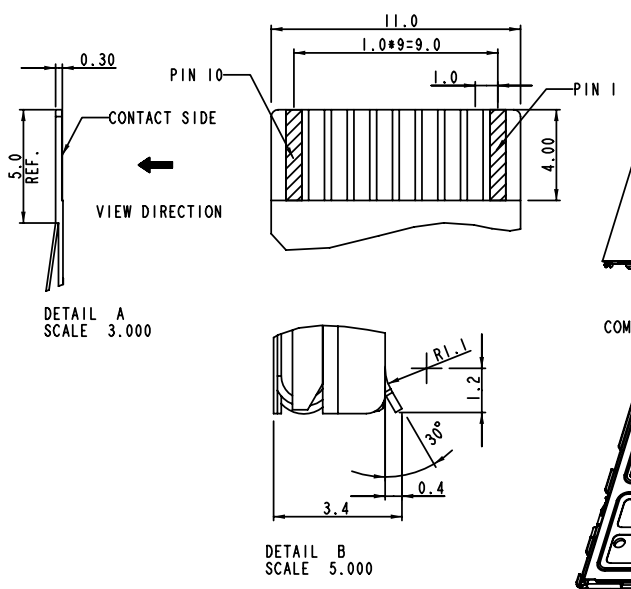
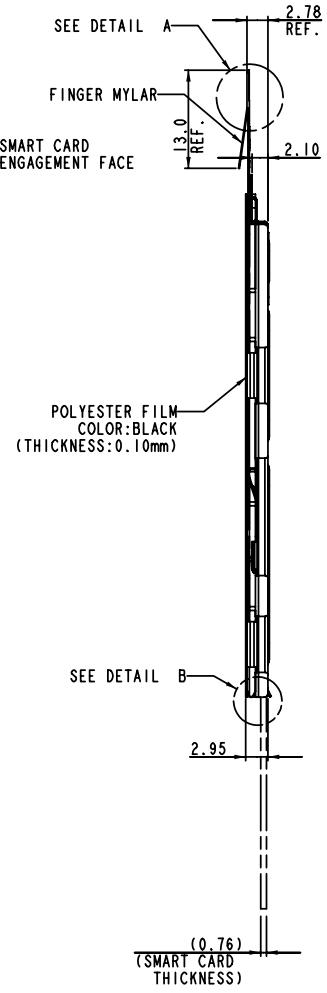
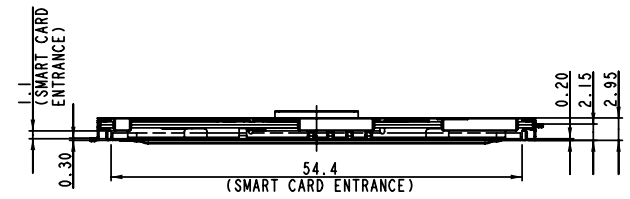
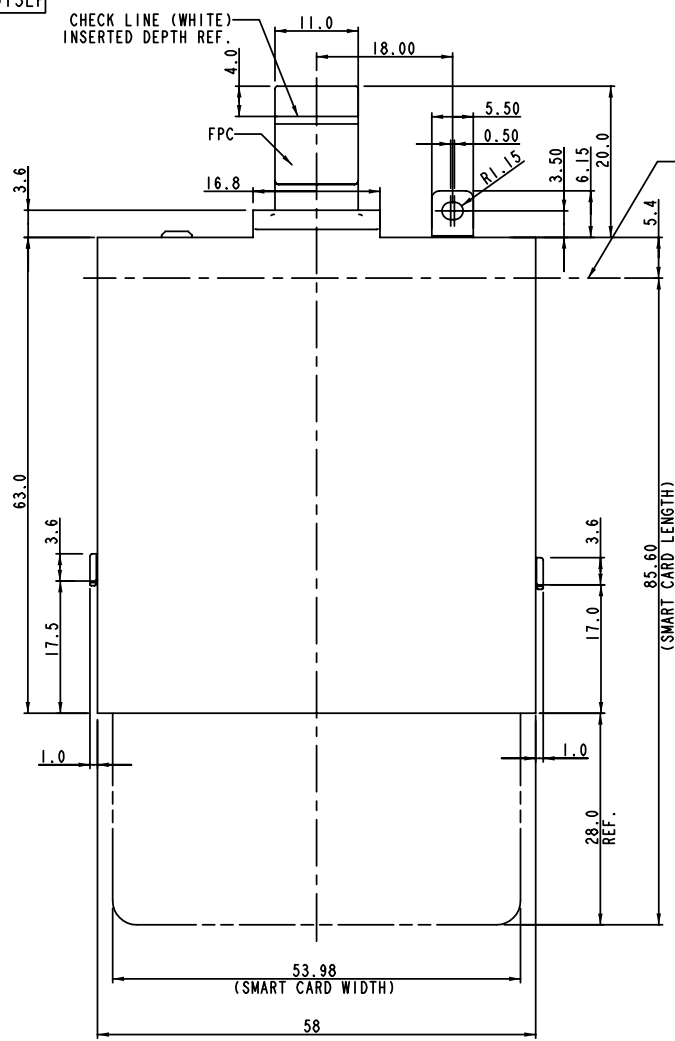
⁴ Printed: Mar 12, 2010

ALL rights strictly reserved. Reproduction or issue to third parties in any form whatsoever is not permitted without written authority from the proprietor, Property of FCI. Copyright FCI.



Copyright FCI.

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

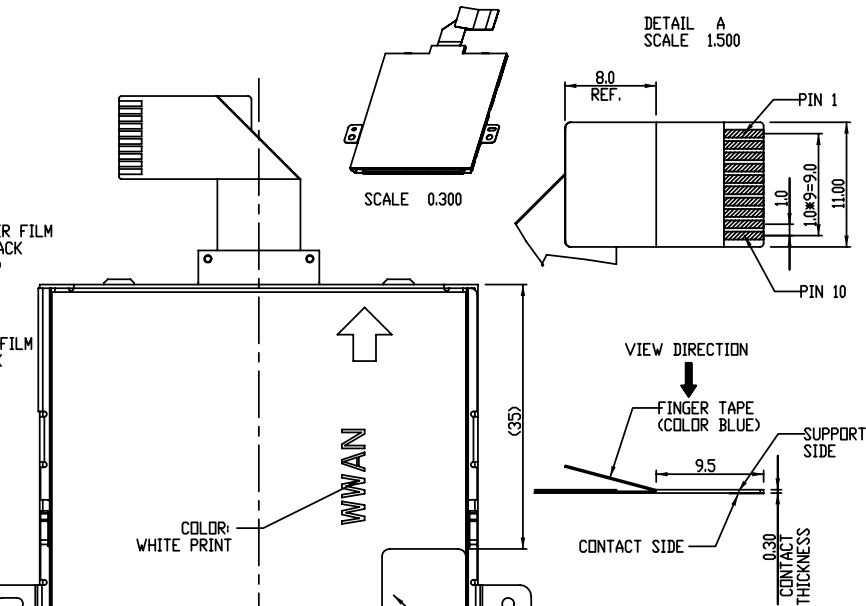
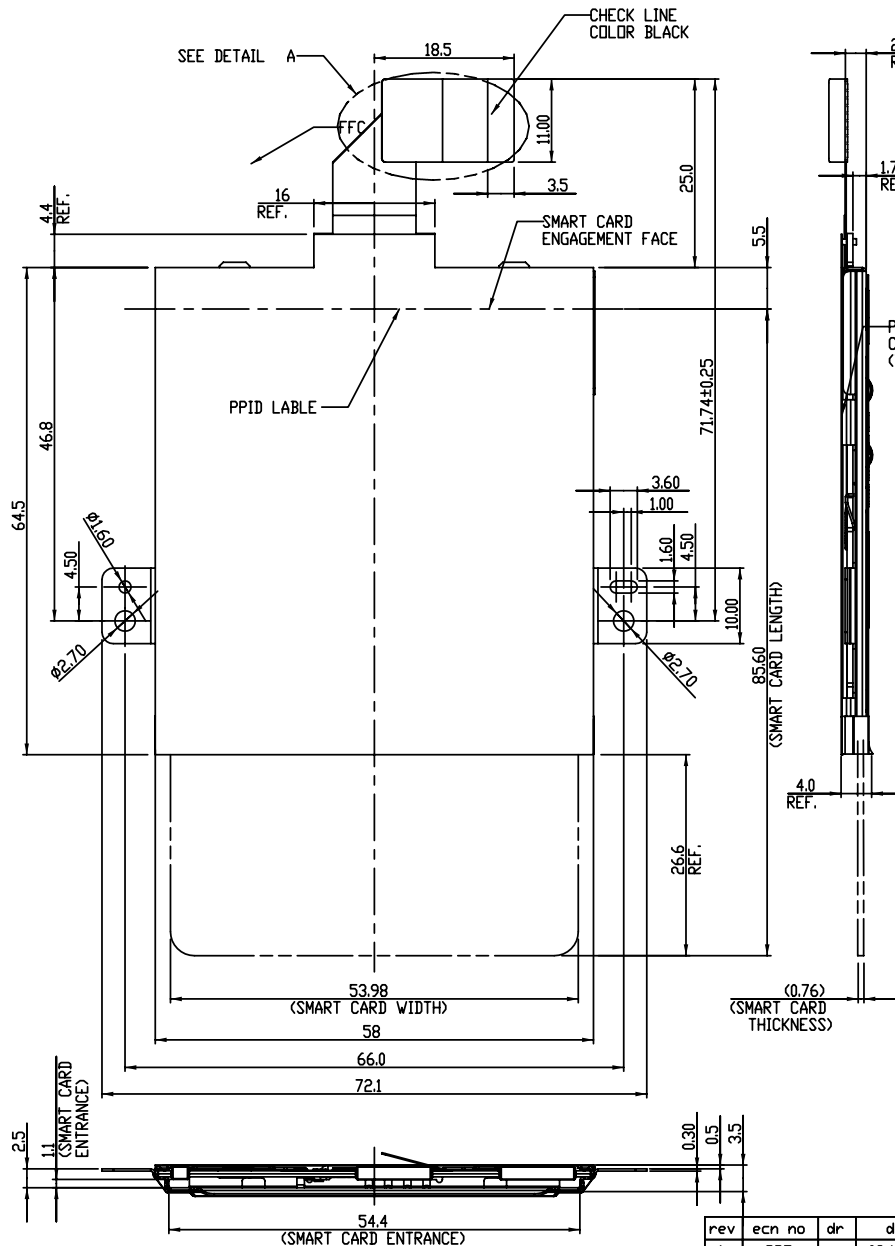
rev	ecn no	dr	date
R	N08-0136	BENNY	05/08/08
S	N08-0212	SH	10/06/08
V	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

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 #			
								Spec ref *			
			title ASSEMBLY SMART CARD READER				drawing no 10010556		Rev. V		
			catalog no				* CUSTOMER DRAWING		sheet 15 of		



Copyright FCI.

PART NUMBER
10010556-015LF

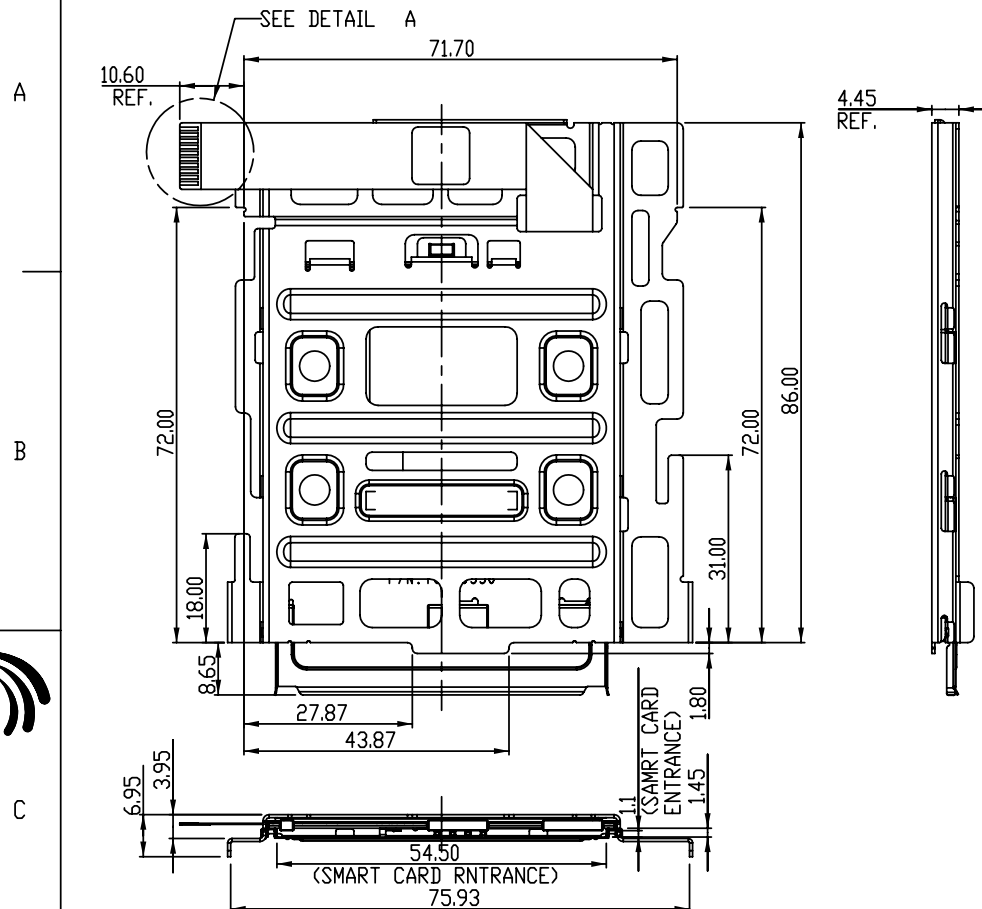


- NOTE:
- Material:
METAL SHELL: STAINLESS STEEL, T=0.30mm
GUIDE BLOCK: THERMOPLASTIC, UL94V-0
PCB: FR-4, T=0.80mm, UL94V-0
FFC: POLYESTER, T=0.30mm, UL20624, NO PRINTING.
PLATING SPEC AS BELOW:
CONTACT SIDE PLATING: Au 3 uin Min.
SOLDER SIDE PLATING: Pure Tin 100 uin Min.
TERMINAL: PHOSPHOR BRONZE.
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	projection	MM	
			TOLERANCES UNLESS OTHERWISE SPECIFIED		⊕		
Dr	BENNY CHEN	04/15/09	ANGULAR	0.X	±0.25	size A4	Scale 0.500
Eng	BENNY CHEN	04/15/09	LINEAR	0.XX	±0.15	ECN	*
Chr	PAUL WANG	04/18/09	0° ±3°	0.XXX	±		
Appr	JOSEPH HSIA	04/20/09	Product family			Spec ref	*
FCI			title ASSEMBLY SMART CARD READER		dwg no 10010556		Rev. V
catalog no			*		CUSTOMER DRAWING sheet 17 of		

PRODUCT NO.
10010556-016LF



NOTE:

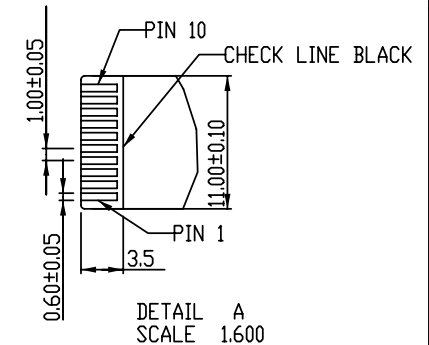
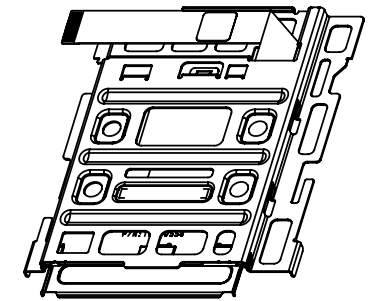
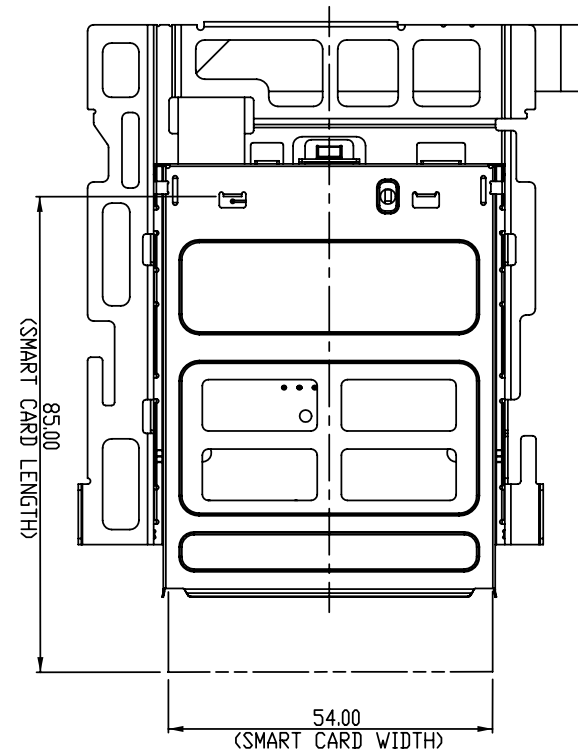
1. Material:

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

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					
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		Rev. V
		-				10010556						
		catalog no				-				CUSTOMER DRAWING		
										sheet 18 of		

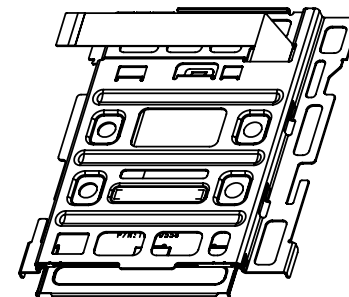
rev	ecn no	dr	date
V	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

PRODUCT NO.
10010556-017LF

CHECK LINE
COLOR BLACK

4.45
REF.

SEE DETAIL A



A

B

C

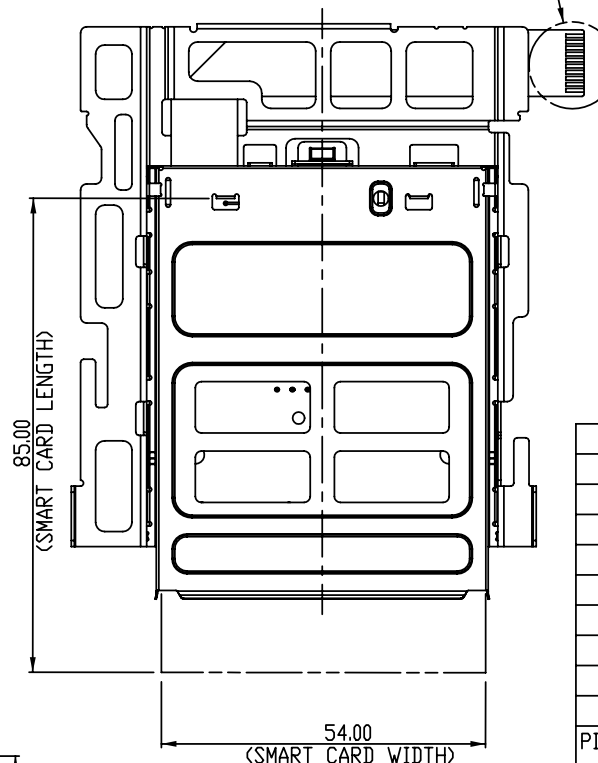
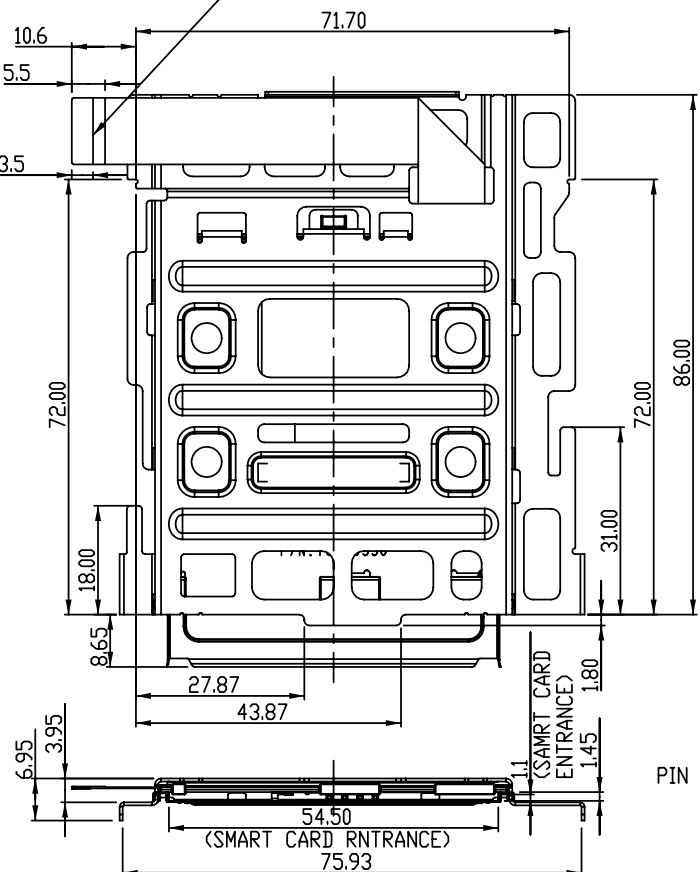
D

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

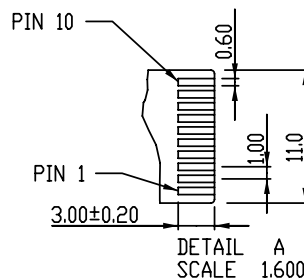
NOTE:

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.

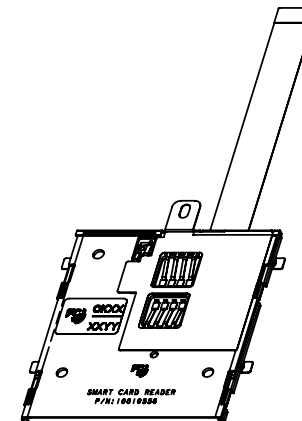
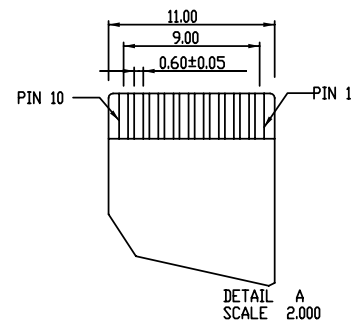
2. CARD DETECTION SWITCH NORMALLY OPEN WITHOUT MATING CARD
3. REFERENCE SPECIFICATION:
PRODUCT SPEC: GS-12-231.
PACKING SPEC: GS-14-829.



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 -	SMART CARD READER				dwg no 10010556	Rev. V		
		catalog no	-				CUSTOMER DRAWING		sheet 19 of	

PRODUCT NO
10010556-018LF



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°

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=124±2mm
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

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

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		
Eng	MIAD SH	09/25/09			0.XX	±0.25			0.500		
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	