

Excellent Integrated System Limited

Stocking Distributor

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[FCI](#)
[10010556-004LF](#)

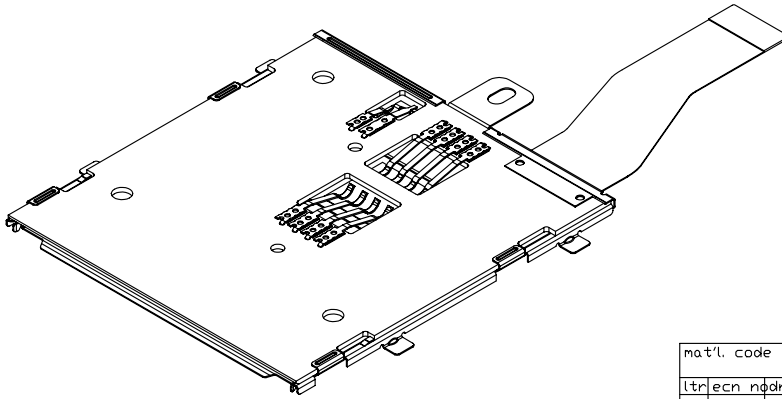
For any questions, you can email us directly:

sales@integrated-circuit.com

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

NOTES :

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



mat'l. code	surface	tolerance	projection	product family
ISD 1302 ✓	ISD 406	ISD 110	MM	95
l tr echn ngdr date	tolerances	unless other	wise specified	title
R N08-0136 SH 07/07/08	angle	0.X±0.5	MM	SMART CARD READER
S N08-0212 SH 10/06/08	linea	0.XX±0.30	scale NA	ASSEMBLY
T N08-0224 SH 07/15/09	0±2°	0.XXX±0.10		
U N08-0308 SH 10/13/09	dr	AJUANG	06/07/02	dwg no
V N10-0058 SH 03/03/10	engr	AJUANG	06/07/02	sheet 1 of 2
W BX-N-0127 ZK 09/30/12	chr	AJUANG	06/07/02	size A3
	appd	JENN.TSAO	06/07/02	
sheet	revision			type
Index	sheet			Product Customer Drawing

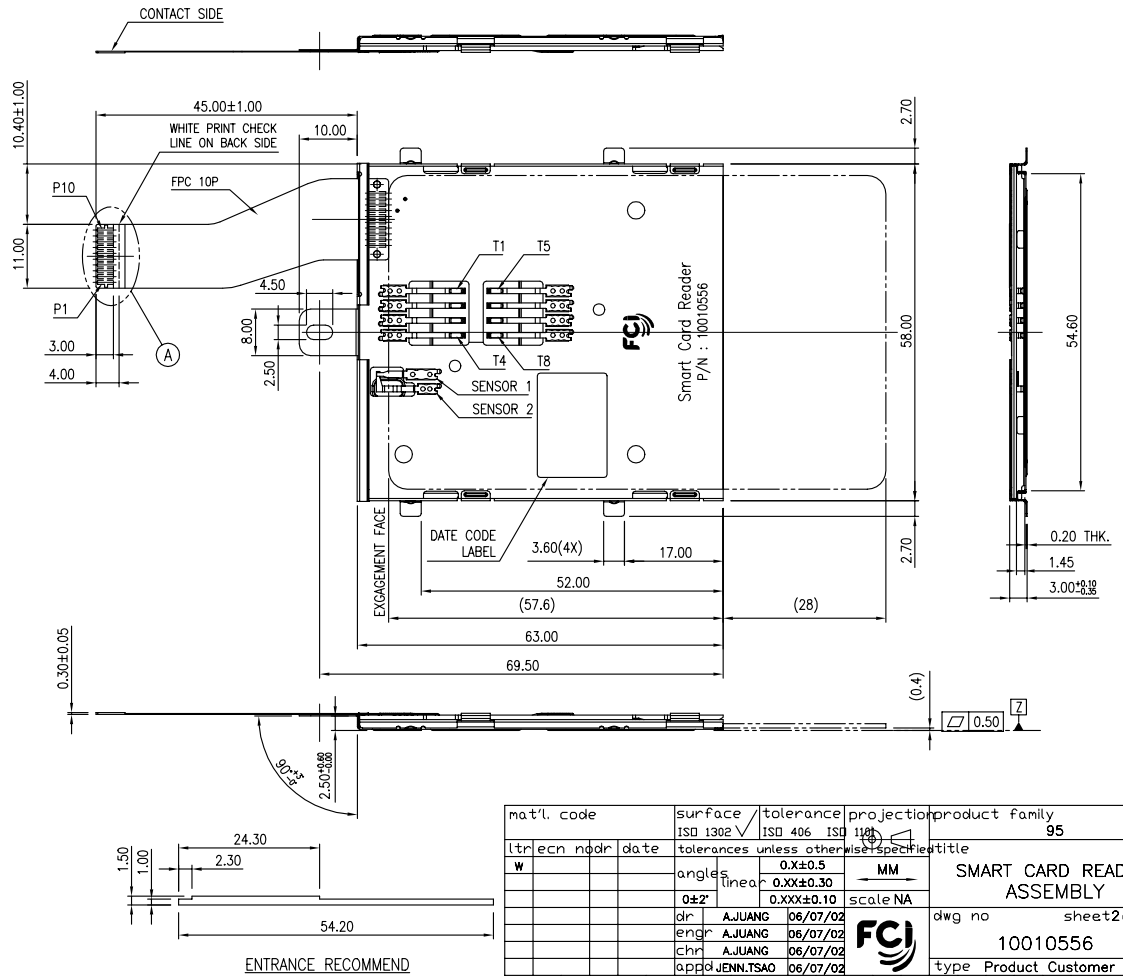
4 PDS: Rev :W

STATUS: Released

Printed: Feb 04, 2013

PRODUCT-NO.

10010556-002LF



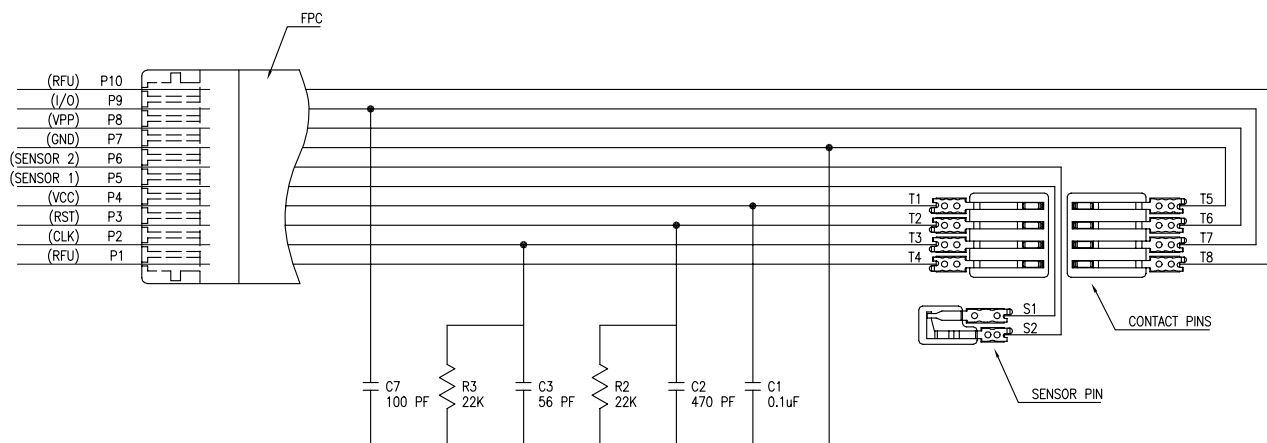
SMART CARD	TERMINAL	FPC	FUNC.
C4	T4	P1	RFU
C3	T3	P2	Clock
C2	T2	P3	Reset
C1	T1	P4	Vcc
SENSOR 1	SENSOR 1	P5	SENSOR
SENSOR 2	SENSOR 2	P6	SENSOR
C5	T5	P7	Gnd
C6	T6	P8	Vpp
C7	T7	P9	I/O
C8	T8	P10	RFU

mat'l. code	surface	tolerance	projection	product family
ISD 1302	ISD 406	ISD 110	95	
tolerances unless otherwise specified	0.X±0.5	0.XX±0.30	0.XXX±0.10	scale NA
angle	line	0±2°	MM	
dr	AJUANG	06/07/02		
engr	AJUANG	06/07/02		
chr	AJUANG	06/07/02		
appd	JENN.TSAO	06/07/02		
sheet	revision			
index	sheet			

SMART CARD READER ASSEMBLY
dwg no 10010556
type Product Customer Drawing

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

10010556-002LF

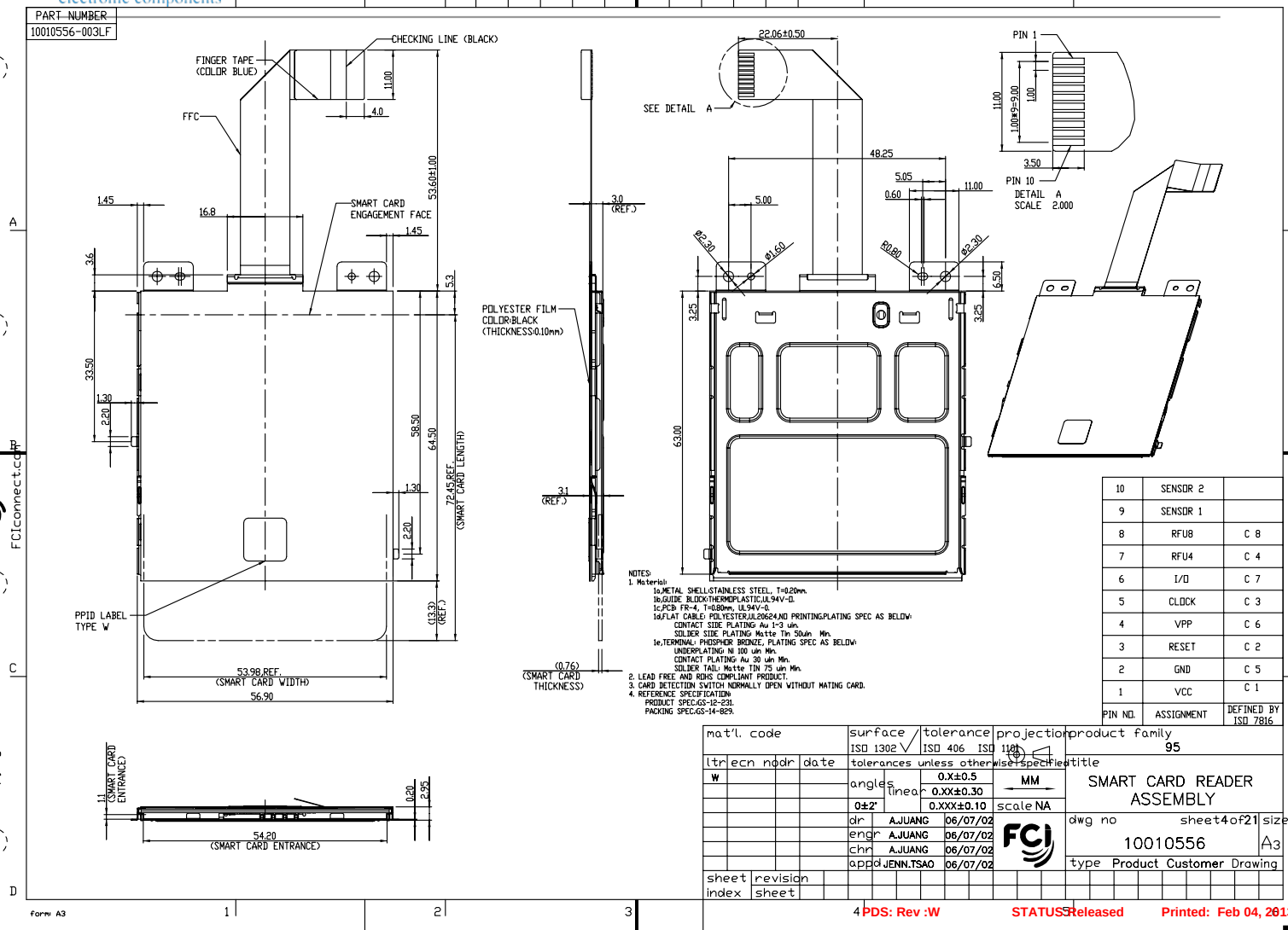


mat'l. code		surface		tolerance		projection		product family			
ISO 1302		ISO 406		ISO 1101		95					
ltr ecn nldr date		tolerances unless otherwise specified title									
W		angle		0.X±0.5		MM		SMART CARD READER ASSEMBLY			
		linea		0.XX±0.30		scale NA					
		0±2°		0.XXX±0.10							
dr		A.JUANG		06/07/02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

4 PDS: Rev :W

STATUS Released

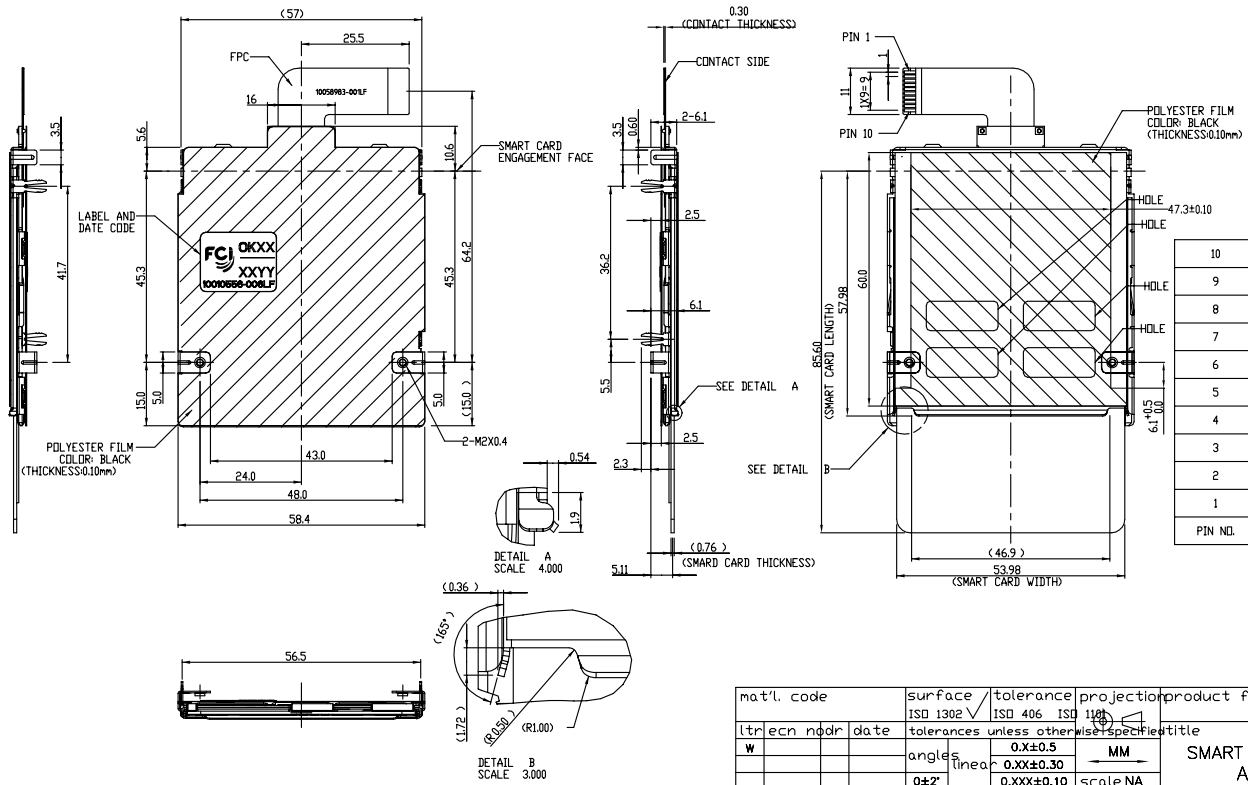
Printed: Feb 04, 2013



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

mat'l. code		surface ISO 1302		tolerance ISO 406		projection ISO 1101		product family 95		drawing assignment JSD 7816	
ltn	ecn	nldr	date	tolerances unless otherwise specified		title					
W				angles	linear	0.0±0.5 0.XX±0.30 0.XXX±0.10	MM	SMART CARD READER ASSEMBLY			
				0±2°		0.0XX±0.10	scale NA				
				dr	AJUANG	06/07/02	FCI	dwg no		sheet4 of 21	
				engr	AJUANG	06/07/02		10010556		A3	
				chr	AJUANG	06/07/02					
				appd	JENN.TSAO	06/07/02		type		Product Customer Drawing	
sheet		revision									
lnktr		rftbot									

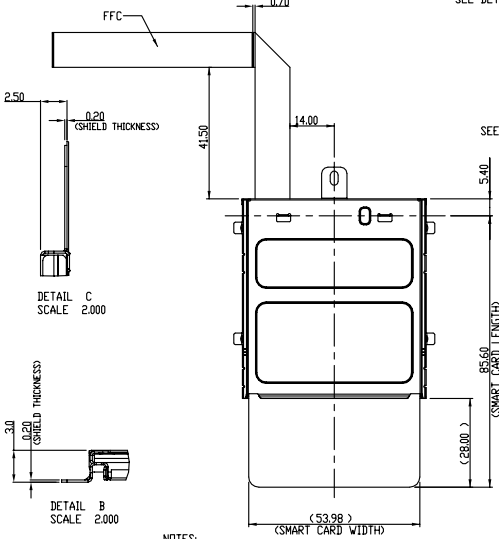
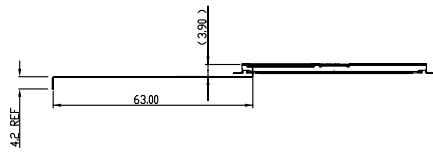
PRODUCT NO
10010556-006LF



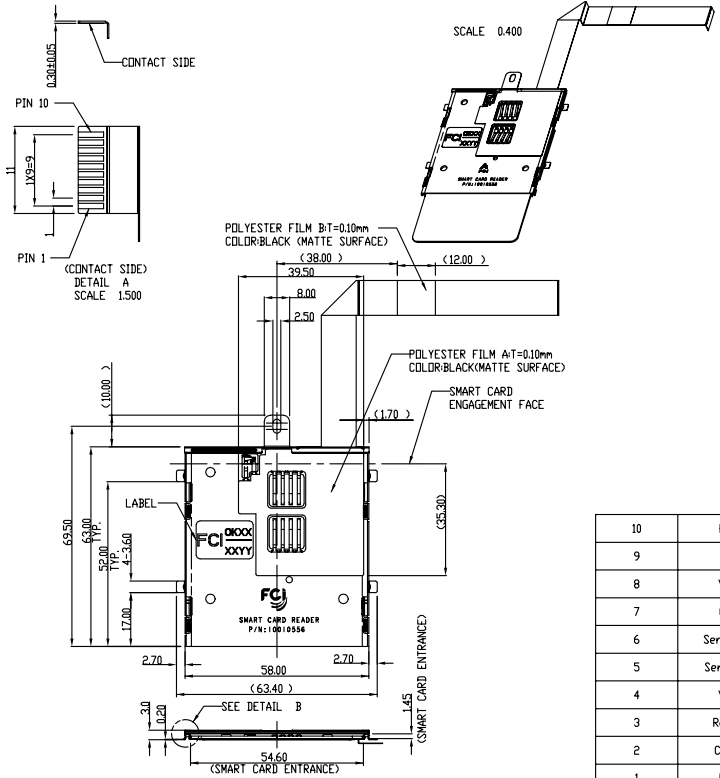
mat'l. code	surface	tolerance	projection	product family
ISD 1302	ISD 406	ISD 110	95	
tolerances unless otherwise specified	0.X±0.5	0.XX±0.30	0.XXX±0.10	title
angle	0±2°	MM	scale NA	SMART CARD READER ASSEMBLY
dr	AJUANG	06/07/02	dwg no	sheet 6 of 21
encl	AJUANG	06/07/02	10010556	A3
chr	AJUANG	06/07/02	type	Product Customer Drawing
appd	JENN.TSAO	06/07/02		
sheet index	revision sheet			

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

PRODUCT NO
10010556-004LF



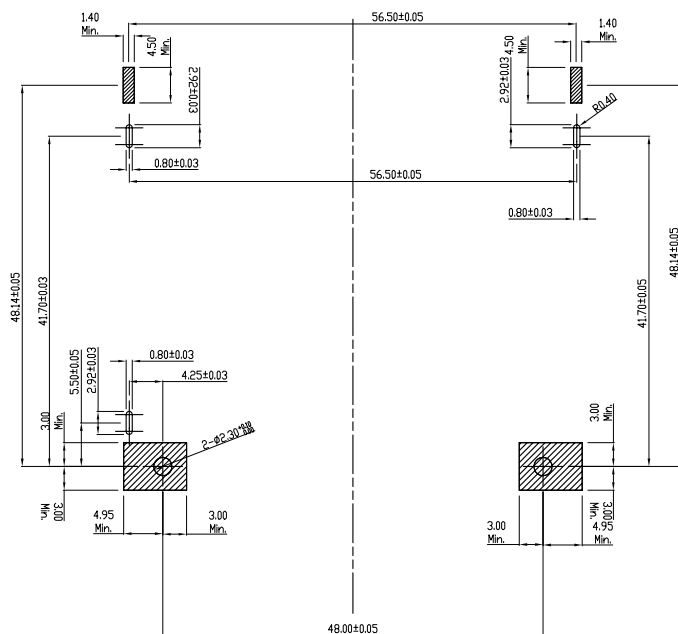
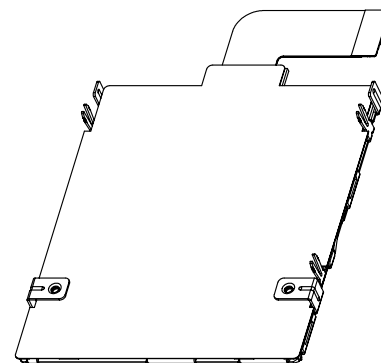
- NOTES:
1. Material:
METAL SHELL: STAINLESS STEEL, T=0.20mm
PCB: FR-4, T=0.80mm
TERMINAL: PHOSPHOR BRONZE.
PLATING SPEC AS BELOW:
ALL OVER NICKEL UNDERPLATING
GOLD PLATING ON CONTACT SURFACE.
MATT: TIN PLATING ON SOLDER TAIL.
FLEXIBLE FLAT CABLE: TOTAL LENGTH=124±2mm
PLATING SPEC AS BELOW:
CONTACT SURFACE: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



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

mat'l. code	surface	tolerance	projection	product family
ISD 1302	✓	ISD 406	ISD 110	95
trtech no	date	tolerances	unless otherwise specified	title
W		angle	linea	MM
		0±2°	0.XX±0.5	0.XX±0.30
			0.XXX±0.10	scale NA
dr	AJUANG	06/07/02		
engr	AJUANG	06/07/02		
chr	AJUANG	06/07/02		
appd	JENN.TSAO	06/07/02		
sheet	revision			
Index	sheet			

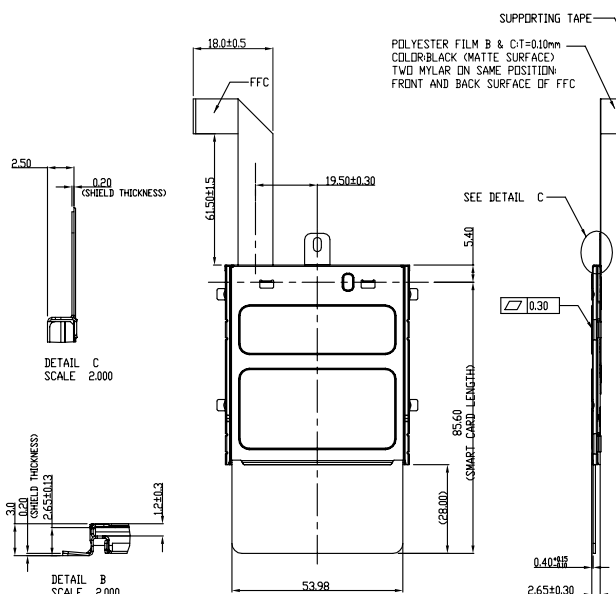
SMART CARD READER
ASSEMBLY
dwg no 10010556
type Product Customer Drawing



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

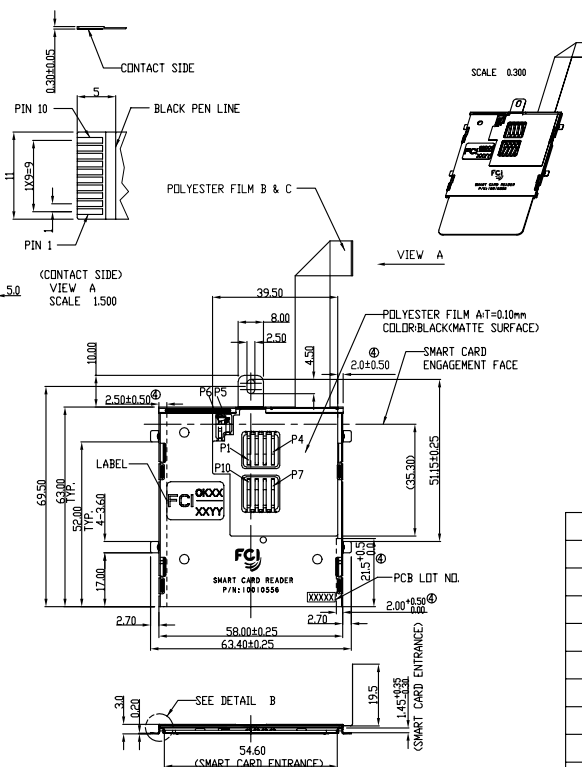
- NOTES:
1. MATERIAL:
METAL SHELL/STAINLESS STEEL, T=0.40mm
PCB FR-4, T=0.80mm
TERMINAL: PHOSPHOR BRONZE.
PLATING SPEC AS BELOW/
ALL OVER NICKEL UNDERPLATING
GOLD PLATING ON CONTACT SURFACE.
WATTE TIN PLATING IN SOLDER TAIL.
FLEX CIRCUIT CABLE(PCB)
PLATING SPEC AS BELOW/
CONTACT SURFACE/GOLD FLASH PLATING.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

mat'l. code		surface		tolerance		projection		product family	
ISO 1302		ISO 406		ISO 1101		95			
ltr ecn nldr date		tolerances unless otherwise specified title							
W		angle		0.0±0.5		MM		SMART CARD READER ASSEMBLY	
		linea		0.0XX±0.30		scale NA			
		0±2°		0.0XXX±0.10					
dr		A.JUANG		06/07/02		FCI		dwg no	
engr		A.JUANG		06/07/02				sheet 7 of 21	
chr		A.JUANG		06/07/02				10010556	
app'd		JENN.TSAO		06/07/02				A3	
sheet		revision						type	
index		sheet						Product Customer Drawing	



NOTES:

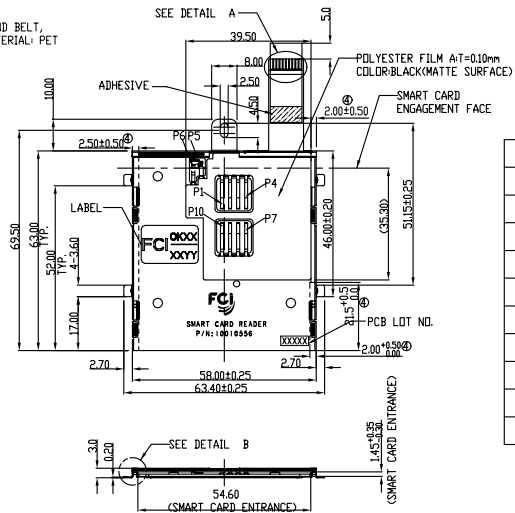
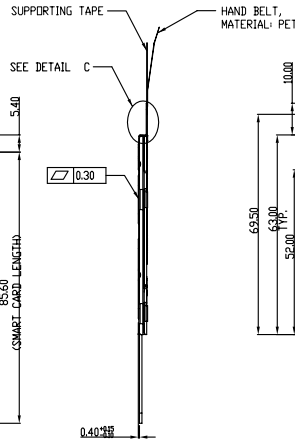
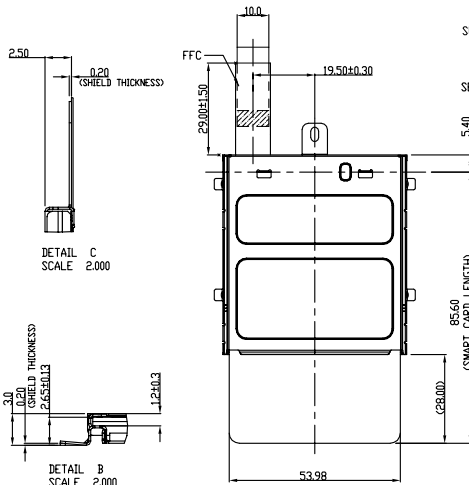
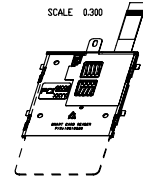
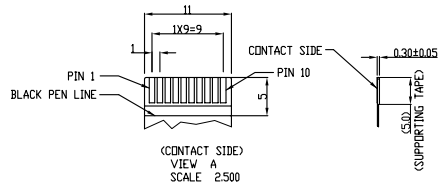
1. Material:
METAL SHELL/STAINLESS STEEL, T=0.20mm
PCB FR-4, T=0.80mm
TERMINAL: PHOSPHOR BRONZE
PLATING SPEC AS BELOW:
ALL OVER NICKEL UNDERPLATING
GOLD PLATING ON CONTACT SURFACE
WATTE TIN PLATING ON SOLDER TAIL
FLEXIBLE FLAT CABLE: TOTAL LENGTH=103.5±2mm
PLATING SPEC AS BELOW:
CONTACT SURFACE TIN PLATING
SOLDER TAIL TIN PLATING
2. CARD DETECTION SWITCH NORMALLY OPEN WITH MATING CARD
3. REFERENCE SPECIFICATION
PRODUCT SPEC GS 12-131
PACKING SPEC GS 14-829
4. THE AREA IS PROHIBITED TO PASTE THE MYLAR AND LABEL



10	RFU
9	I/O
8	V _{pp}
7	GND
6	Sensor 2
5	Sensor 1
4	V _{cc}
3	Reset
2	Clock
1	RFU
PIN NO.	ASSIGNMENT

mat'l. code		surface ISO 1302 ✓		tolerance ISO 406 ISO 1400		projection 1:1		product family 95	
ltr ecn nchr date		1302es unless otherwise specified		angles 0.0±0.0 0.0XX±0.30 0.0±2°		linea MM scale NA		title SMART CARD READER ASSEMBLY	
w		dr A.JUANG 06/07/02		engr A.JUANG 06/07/02				dwg no 10010556	
		chr A.JUANG 06/07/02		app'd JENN.TSAO 06/07/02				sheet 8 of 21 A3	
sheet litr		revision litr		type		Product		Customer Drawing	

PRODUCT NO
10010556-008LF

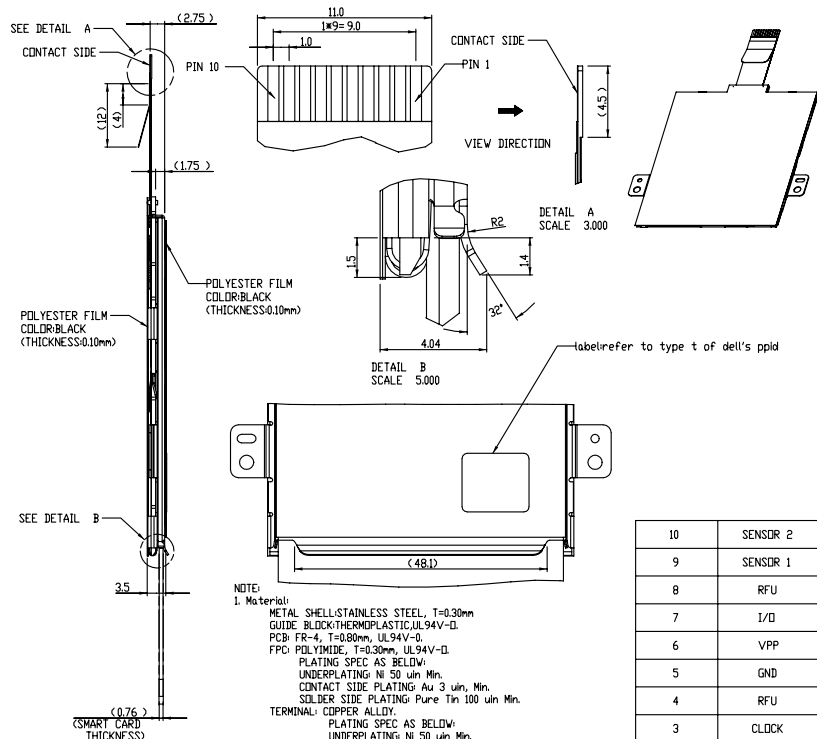
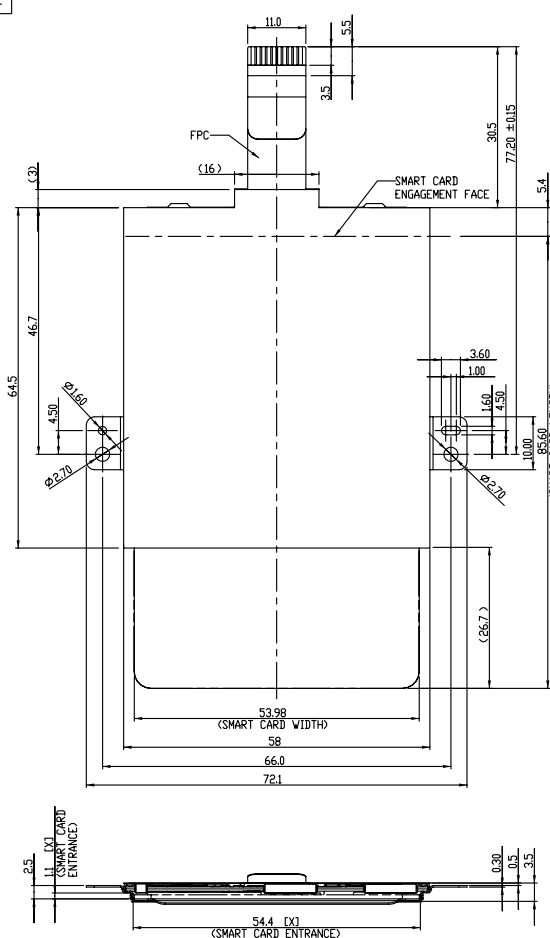


PIN NO.	ASSIGNMENT
10	RFU
9	I/O
8	Vpp
7	GND
6	Sensor 2
5	Sensor 1
4	Vcc
3	Reset
2	Clock
1	RFU

- NOTES:
1. Material:
METAL SHELL: STAINLESS 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 PLAT CABLE: TOTAL LENGTH=33.5±1mm
PLATING SPEC. AS BELOW:
CONTACT SURFACE: TIN PLATING.
SOLDER TAIL: TIN PLATING.
2. CARD DETECTION SWITCH NORMALLY OPEN WITHOUT MATING CARD
3. REFERENCE SPECIFICATION:
PRODUCT SPEC. GS 12-231
PACKING SPEC. GS 14-829
④ THE AREA IS PROHIBITED TO PASTE THE MYLAR AND LABEL.

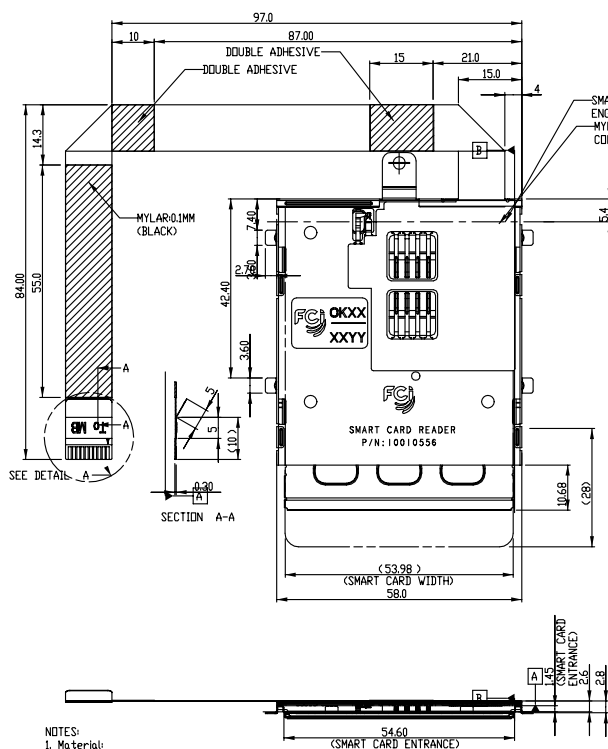
mat'l. code	surface	tolerance	projection	product family
ISD 1302	✓	ISD 406	ISD 110	95
tolerances unless otherwise specified	0.X±0.5	0.XX±0.30	0.XXX±0.10	scale NA
angle	0±2°			
dr	AJUANG	06/07/02		
engr	AJUANG	06/07/02		
chr	AJUANG	06/07/02		
appd	JENN.TSAO	06/07/02		
sheet	revision			
index	sheet			

SMART CARD READER
ASSEMBLY
dwg no 10010556
sheet 9 of 21
size A3
type Product Customer Drawing



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

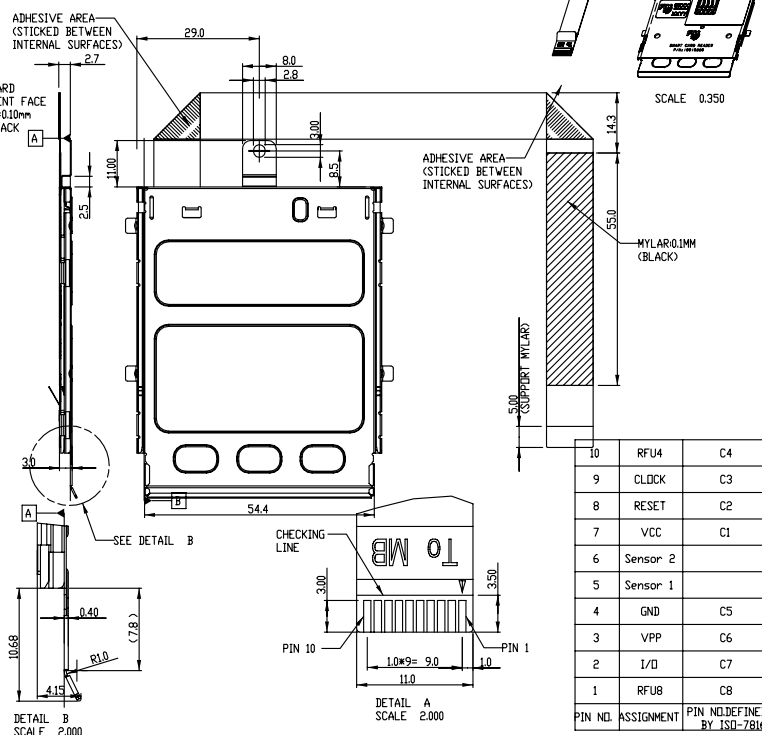
mat'l. code		surface ☒ tolerance ☐		projection		product family	
ltr ecn nchr date		ISO 1302 ☒ ISO 406 ISO 1181		1181		95	
w		tolerances unless otherw		wise specified		title	
		angle $0.X \pm 0.5$		MM		SMART CARD READER	
		linear $0.XX \pm 0.30$				ASSEMBLY	
		0.2°		scale NA			
		$0.XXX \pm 0.10$					
dr		A.JUANG 06/07/02		FCI		dwg no	
enr		A.JUANG 06/07/02				sheet 10 of 21	
chr		A.JUANG 06/07/02				10010556	
app		JENN.TSAO 06/07/02				A3	
						type Product Customer Drawing	



NOTES:

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.
MATTIE TIN PLATING ON SOLDER TAIL.
FLEXIBLE FLAT CABLE: TOTAL LENGTH=335±1mm
PLATING SPEC AS BELOW:
CONTACT SURFACE: TIN PLATING.
SOLDER TAIL: TIN PLATING.
2. CARD DETECTION SWITCH NORMALLY OPEN WITHOUT MATING CARD

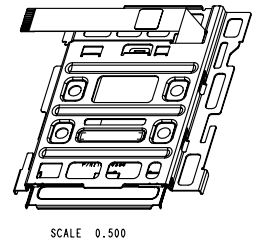
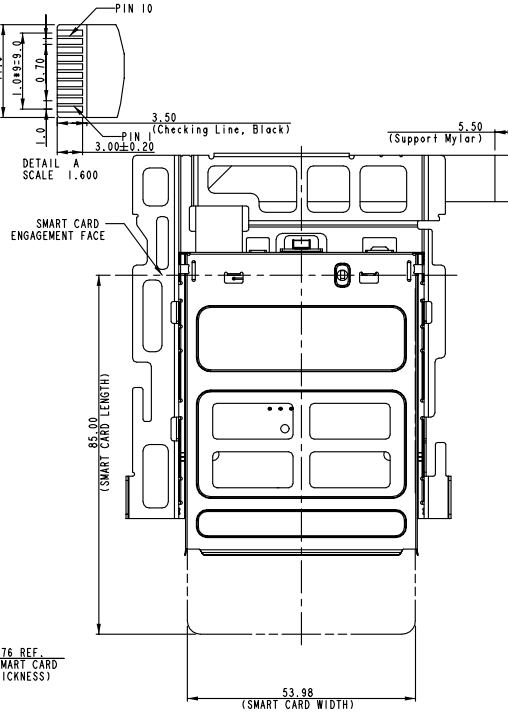
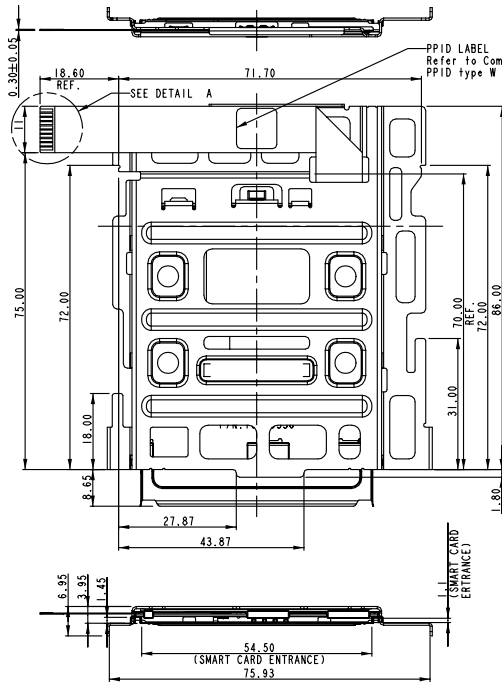
2. CARD DETECTION SWITCH NORMALLY OPEN WITHOUT MATING CARD



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

mat'l. code		surface		tolerance		projection		product family	
ISD 1302		ISD 406		ISD 100		100		95	
ltr ecn nchr date		tolerances unless otherwise specified		tolerances unless otherwise specified		tolerances unless otherwise specified		title	
W		angles		linea		MM		SMART CARD READER	
		0±2°		0.XX±0.5		0.XX±0.30		ASSEMBLY	
				0.XXX±0.10		scale NA			
dr		AJUANG		06/07/02				dwg no	
engr		AJUANG		06/07/02				sheet11of21	
chr		AJUANG		06/07/02				10010556	
appd		JENN.TSAO		06/07/02				A3	
sheet		revision						type	
index		sheet						Product Customer Drawing	

PART NUMBER
10010556-010LF



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

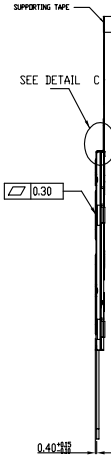
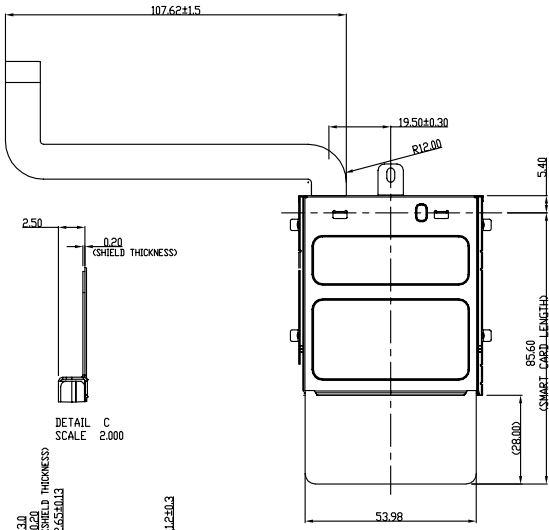
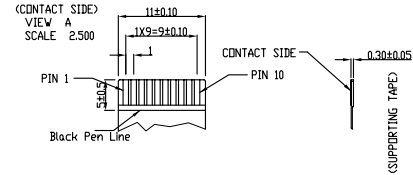
NOTE:
1. Material:
METAL SHELL: STAINLESS STEEL
BRACKET: STEEL
GUIDE BLOCK: THERMOPLASTIC, UL94V-0.
PCB: FR-4, T=0.80mm, UL94V-0.
FFC: POLYESTER, UL20624.
PLATING SPEC AS BELOW:
CONTACT SIDE PLATING: GOLD.
SOLDER SIDE PLATING: Pure Tin.
TERMINAL: COPPER ALLOY.
PLATING SPEC AS BELOW:
UNDERPLATING: NICKEL.
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-14-629.

mat'l. code	surface	tolerance	projection	product family
ISO 1302	ISO 406	ISO 1101	95	
tolerances unless otherwise specified	0.X±0.5	MM		
angles	0.XX±0.30	scale NA		
0±2°	0.XXX±0.10			
dr	AJUANG	06/07/02		
enrg	AJUANG	06/07/02		
chr	AJUANG	06/07/02		
appd	JENN.TSAO	06/07/02		
sheet	revision			
index	sheet			



SMART CARD READER ASSEMBLY
dwg no 10010556
sheet 2 of 21
type Product Customer Drawing

PRODUCT NO
10010556-011LF



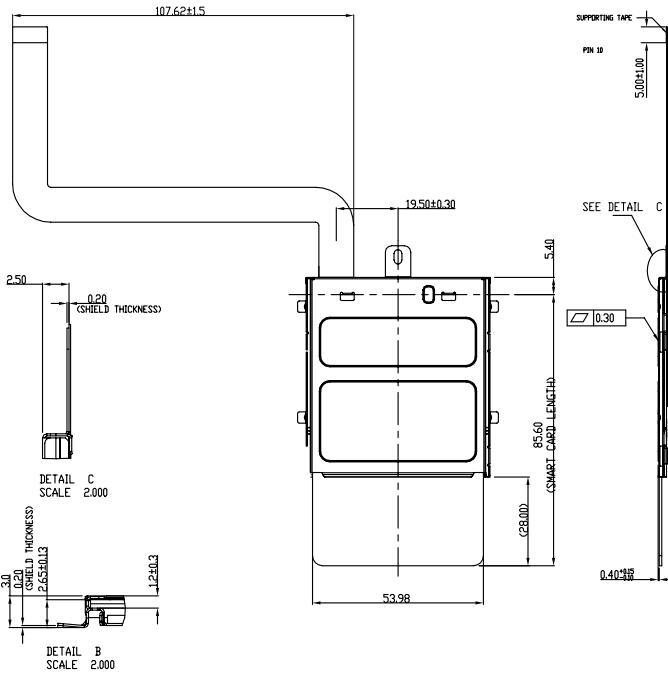
10	RFU	10
9	I/O	9
8	Vpp	8
7	GND	7
6	Sensor 2	6
5	Sensor 1	5
4	Vcc	pin 4
3	Reset	pin 3
2	Clock	pin 2
1	RFU	pin 1
Terminal	ASSIGNMENT	FPC

NOTE:
1. Material:
METAL SHELL: STAINLESS 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.

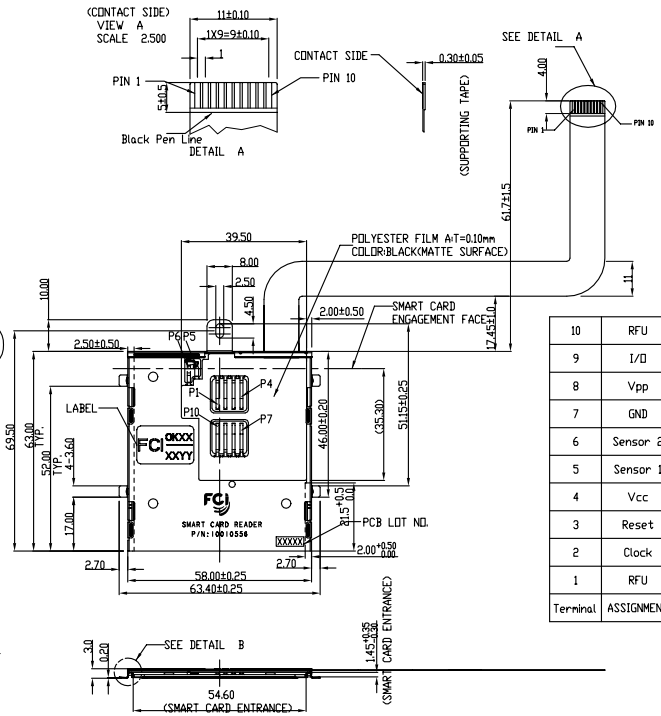
mat'l. code	surface	tolerance	projection	product family
ISO 1302	ISO 406	ISO 1101	95	
tolerances	unless otherwise specified			
angle	0.X±0.5	MM		
linea	0.XXX±0.30	scale NA		
dr	AJUANG	06/07/02		
engr	AJUANG	06/07/02		
chr	AJUANG	06/07/02		
appd	JENN.TSAO	06/07/02		
sheet	revision			
index	sheet			

SMART CARD READER ASSEMBLY
dwg no 10010556
type Product Customer Drawing
sheet 13 of 21
size A3

PRODUCT NO
10010556-012LF



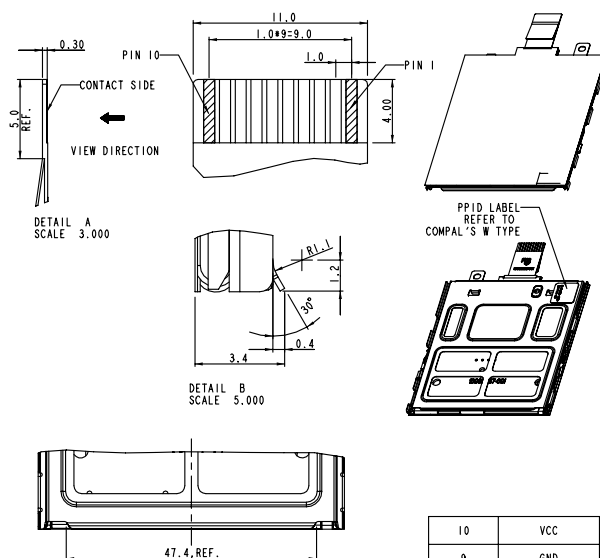
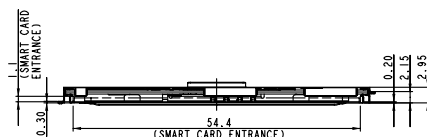
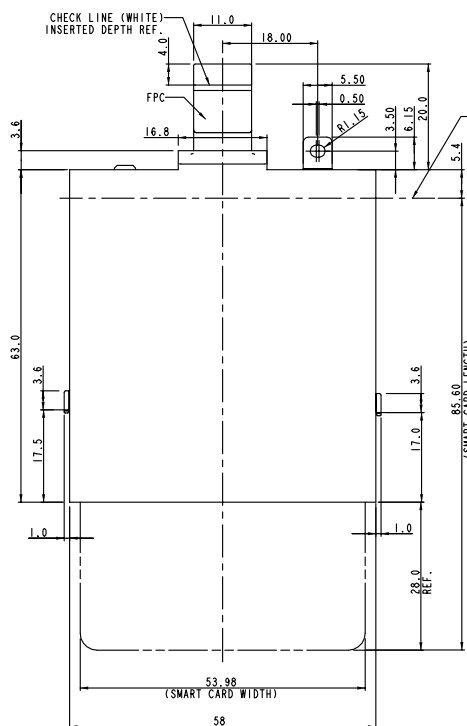
- NOTES:
1. Material:
METAL SHELL: STAINLESS STEEL, T=0.20mm
PCB: FR-4, T=0.80mm
TERMINAL: PHOSPHOR BRONZE.
PLATING SPEC AS BELOW:
ALL OVER NICKEL UNDERPLATING
GOLD PLATING ON CONTACT SURFACE.
MATTE TIN PLATING ON SOLDER TAIL.
FPC PLATING SPEC AS BELOW:
CONTACT SURFACE: GOLD FLASH.
SOLDER TAIL: TIN PLATING.
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	4
3	Reset	3
2	Clock	2
1	RFU	1
Terminal	ASSIGNMENT	FPC

mat'l. code	surface	tolerance	projection	product family
ISD 1302	ISD 406	ISD 110	95	
tr tech no	date	tolerances unless otherwise specified	title	
W		angle	0.1X±0.5	SMART CARD READER ASSEMBLY
		line	0.0XX±0.30	
			0.0XX±0.10	
	dr	AJUANG	06/07/02	dwg no
	engr	AJUANG	06/07/02	sheet 4 of 21
	chr	AJUANG	06/07/02	10010556
	appd	JENN.TSAO	06/07/02	A3
sheet	revision			type Product Customer Drawing
index	sheet			

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



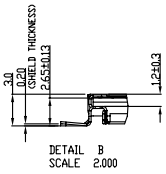
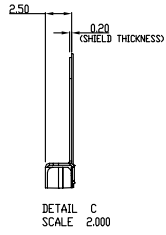
NOTE:

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.
2. PLATING SPEC AS BELOW:
 - UNDERPLATING: Ni 50 uin Min.
 - CONTACT SIDE PLATING: Au 3 uin Min.
 - SOLDER SIDE PLATING: Pure Tin 100 uin Min.
3. TERMINAL: COPPER ALLOY
 - PLATING SPEC AS BELOW:
 - UNDERPLATING: Ni 50 uin Min.
 - CONTACT PLATING: Au 30 uin Min.
 - SOLDER TAIL: Pure Tin 15 uin Min.
4. CARD DETECTION SWITCH NORMALLY OPEN WITHOUT MATING CARD
5. REFERENCE SPECIFICATION:
 - PRODUCT SPEC: GS-12-231.
 - PANEL SPEC: GS-12-232.

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

mat'l. code		surface		tolerance		projection		product family		TYR NO.		CUSTOMER		ISO 7816	
ISO 1302		ISO 1302		ISO 406		ISO 1101		95							
trn ecn nldr		date		tolerances unless otherw		wise specified		title							
W				angle		linea		MM		SMART CARD READER					
				0.0±0.5						ASSEMBLY					
				0.XX±0.30											
				0.2°		0.XXX±0.10		scale NA							
		dr		AJUANG		06/07/02		FCI		dwg no		sheet 5 of 21		size	
		engr		AJUANG		06/07/02				10010556		A3			
		chr		AJUANG		06/07/02				type		Product		Customer Drawing	
app'd		JENN.TSAO		06/07/02											
sheet		revision													
index		sheet													

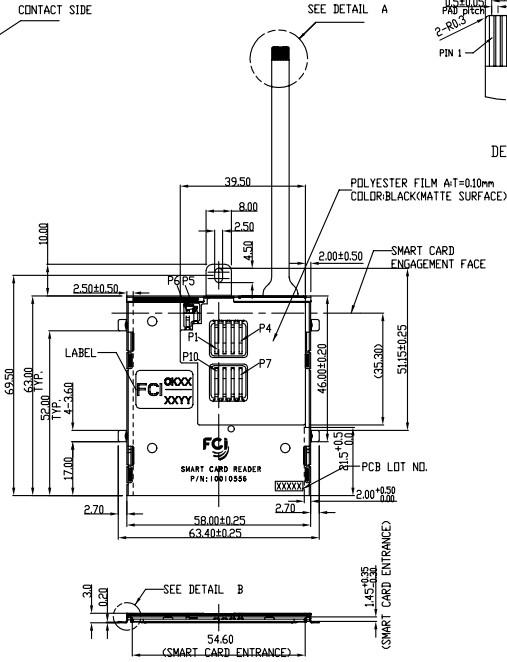
PRODUCT NO	FPC
10010556-014LF	10086571-004



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

0.30±0.05 CONTACT SIDE
SUPPORTING TAPE

SEE DETAIL C

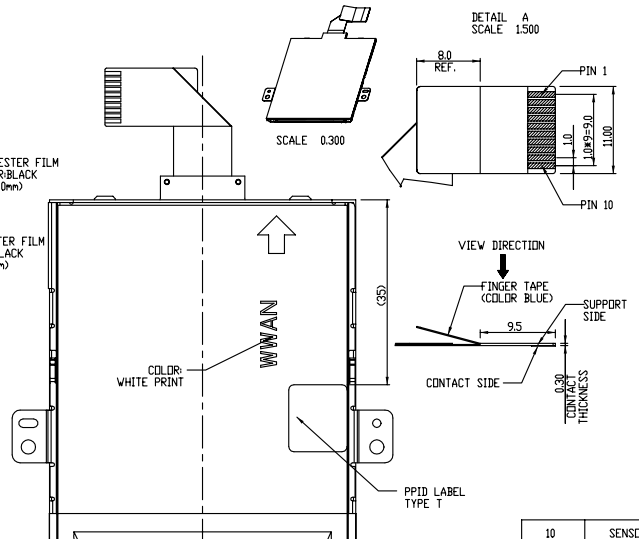
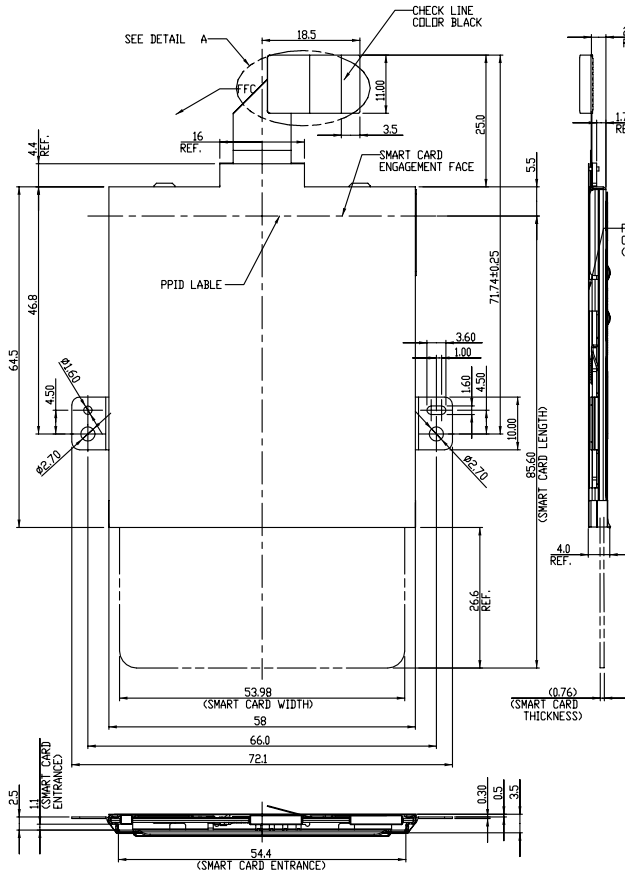


DETAIL A

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

mat'l. code	surface	tolerance	projection	product family
ISD 1302	ISD 406	ISD 110	95	
tolerances unless otherwise specified	0.X±0.5	0.XX±0.30	0.XXX±0.10	scale NA
angle	0±2°			
dr	AJUANG	06/07/02		
engr	AJUANG	06/07/02		
chr	AJUANG	06/07/02		
appd	JENN.TSAO	06/07/02		
sheet	revision			
index	sheet			

dwg no	sheet	of	size
10010556	16	21	A3
type	Product	Customer	Drawing

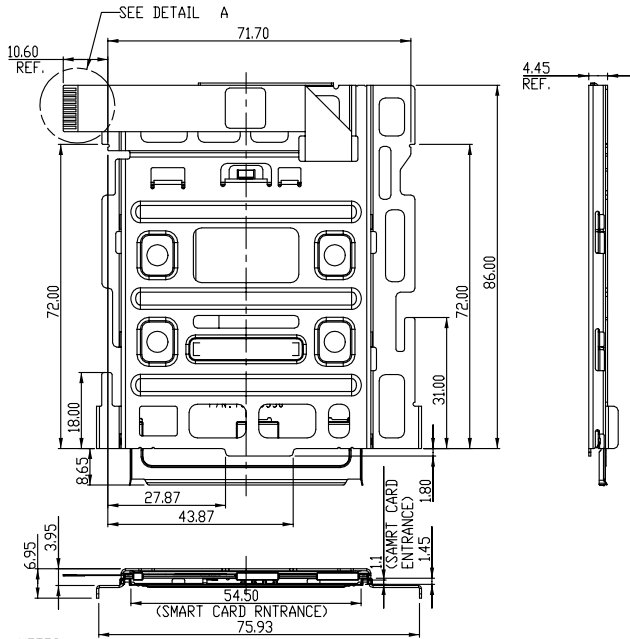


- NOTES:
1. Material:
 - METAL: SHELL/STAINLESS STEEL, T=0.30mm
 - GUIDE: BLOCK/TERMOPLASTIC/UL94V-0
 - PCB: FR-4, T=0.80mm, UL94V-0
 - FFC: POLYESTER, T=0.30mm/UL20624, NO PRINTING.
 - PLATING SPEC: AS BELOW
 - CONTACT SIDE PLATING: Au 3 um, Min.
 - SOLDER SIDE PLATING: Matte Tin 100 um Min.
 2. TERMINAL: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

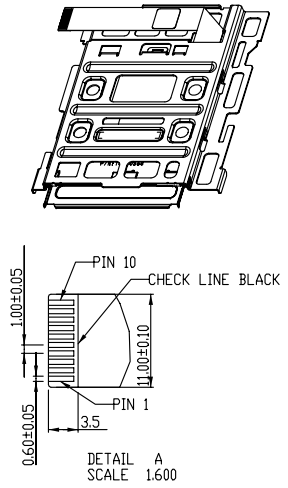
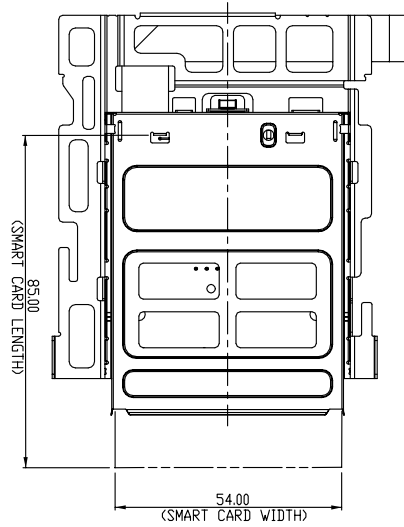
10	SENSOR 2
9	SENSOR 1
8	RFU8
7	I/D
6	VPP
5	GND
4	RFU4
3	CLOCK
2	RESET
1	VCC
PIN NO.	ASSIGNMENT

mat'l. code		surface		tolerance		projection		product family	
		ISO 1302 ✓		ISO 1302 ✓		ISO 1302 ✓		95	
ltr.ecn nchr date		tolerances unless otherw		wiserspec		title			
W		angle		0.X±0.5		MM		SMART CARD READER	
		line		0.XX±0.30		scale NA		ASSEMBLY	
		±0.2		0.XXX±0.10		FCJ		dwg no sheet of 21 size	
		dr A.JUANG 06/07/02						10010556 A3	
		enrg A.JUANG 06/07/02						type Product Customer Drawing	
		chn A.JUANG 06/07/02							
		appd JENN.TSAO 06/07/02							
sheet index		revision sheet							

PRODUCT NO.
10010556-016LF



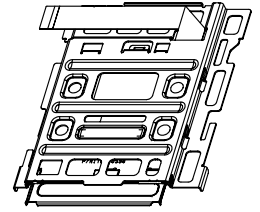
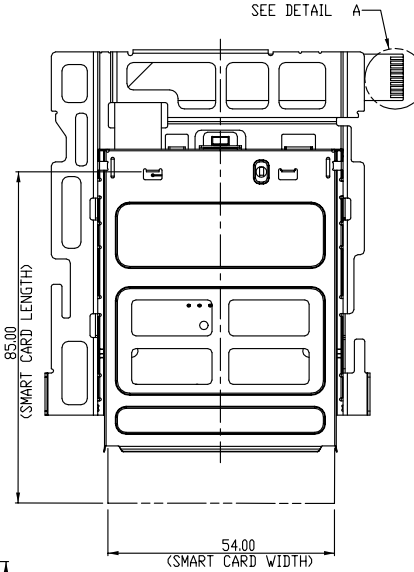
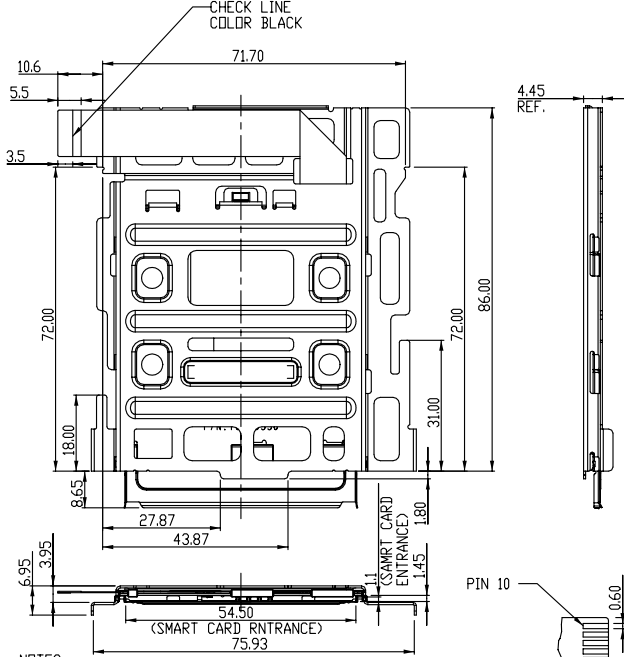
- NOTES:
1. Material:
METAL SHELL: STAINLESS STEEL
BRACKET: STEEL
GUIDE BLOCK: THERMOPLASTIC, UL94V-0
PCB: FR-4, T=0.80mm, UL94V-0
FFC: POLYESTER, UL20624
PLATING SPEC AS BELOW:
CONTACT SIDE PLATING: GOLD
SOLDER SIDE PLATING: Pure Tin
TERMINAL: COPPER ALLOY
PLATING SPEC AS BELOW:
UNDERPLATING: NICKEL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

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

PRODUCT NO.
10010556-017LF



NOTES:

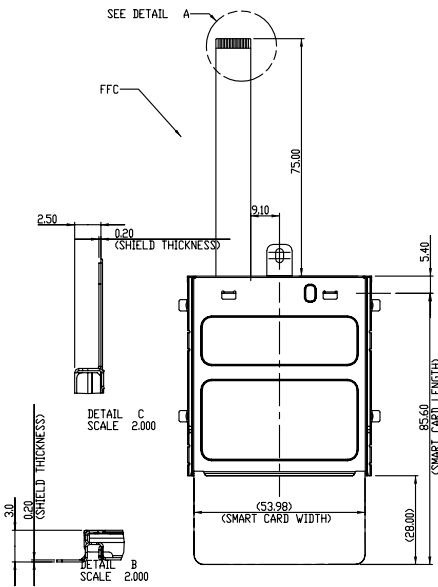
- Material:
METAL SHELL: STAINLESS STEEL
BRACKET: STEEL
GUIDE BLOCK: THERMOPLASTIC, UL94V-0.
PCB: FR-4, T=0.80mm, UL94V-0.
FFC: POLYESTER, UL20624.
PLATING SPEC AS BELOW:
CONTACT SIDE PLATING: GOLD FLASH 0.076um MIN.
SOLDER SIDE PLATING: MATTE TIN.
TERMINAL: COPPER ALLOY.
PLATING SPEC AS BELOW:
UNDERPLATING: NICKEL.
CONTACT PLATING: GOLD 0.76um MIN.
SOLDER TAIL: MATTE TIN.
- CARD DETECTION SWITCH NORMALLY OPEN WITHOUT MATING CARD
- 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

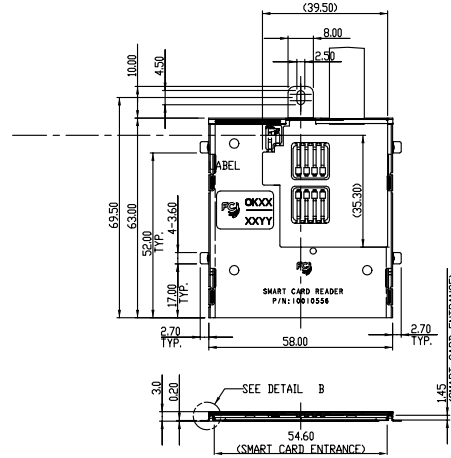
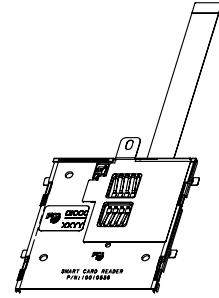
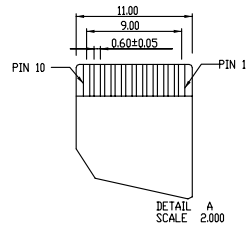
mat'l. code	surface	tolerance	projection	product family
ISO 1302	ISO 406	ISO 1101	95	
tolerances unless otherwise specified	0.X±0.5	0.XX±0.30	0.XXX±0.10	scale NA
angle	linea	0±2°	MM	SMART CARD READER ASSEMBLY
dr	engr	chr	appd	JENN.TSAO
06/07/02	06/07/02	06/07/02	06/07/02	
sheet	revision	sheet	index	
4	PDS: Rev :W	STATUS: Released	Printed: Feb 04, 2013	

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PRODUCT NO.
10010556-018LF



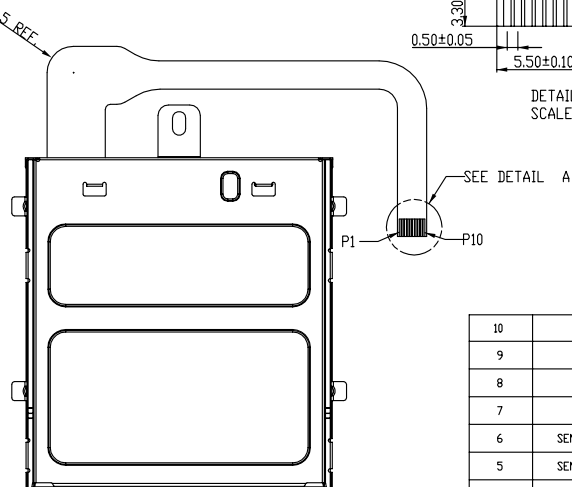
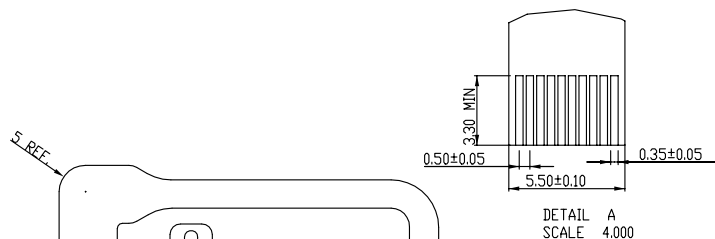
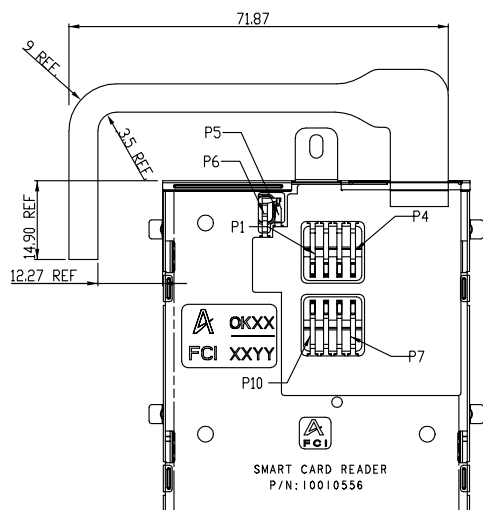
NOTE:
1. Material:
METAL SHELL: STAINLESS STEEL, T=0.20mm
PCB: FR-4, T=0.80mm
TERMINAL: PHOSPHOR BRONZE
PLATING SPEC AS BELOW:
ALL OVER NICKEL UNDERPLATING
GOLD PLATING ON CONTACT SURFACE.
MATE: TIN PLATING ON SOLDER TAIL.
FLEXIBLE FLAT CABLE: TOTAL LENGTH=124±2mm
PLATING SPEC AS BELOW:
CONTACT SURFACE: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

mat'l. code	surface	tolerance	projection	product family
ISD 1302	ISD 406	ISD 110	95	
tolerances unless otherwise specified	0.X±0.5	0.XX±0.30	0.XXX±0.10	scale NA
angle	linea	0±2'	MM	
dr	AJUANG	06/07/02		
enqr	AJUANG	06/07/02		
chr	AJUANG	06/07/02		
appd	JENN.TSAO	06/07/02		
sheet	revision			
index	sheet			

SMART CARD READER
ASSEMBLY
dwg no 10010556
sheet 20 of 21
A3
type Product Customer Drawing



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

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

mat'l. code		surface		tolerance		projection		product family	
ISD 1302		ISD 406		ISD 100		100		95	
ltn ecn nchr		date		tolerances unless otherwise specified		title			
W				angles		MM		SMART CARD READER	
				0.1X0.5		scale NA		ASSEMBLY	
				0.0XX+0.30				dwg no	
				0.0XX+0.10				sheet 21 of 21	
								size	
								A3	
dr		A JUAN		06/07/02					
engr		A JUAN		06/07/02					
chr		A JUAN		06/07/02				10010556	
app		JENN.TSAO		06/07/02				type	
								Product Customer Drawing	
sheet		revision							
index		sheet							