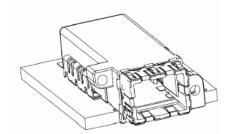
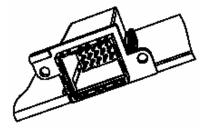
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FCi	APPLICATION SPECIFICATION	GS-20-049	
TITLE		PAGE	REVISION
Metral Sofix®		1 of 44	С
P/N: 72860LF,52088LF,72844LF,72858LF,10022805LF,10051941LF-		AUTHORIZED BY	DATE (MM/DD/YY)
201LF,72846LF		J.Taron	02/15/2007
		STATUS RELEASED	

# SHIELDED RIGHT ANGLE BOARD CONNECTOR



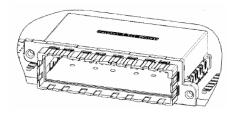
72860LF(STB), 52088LF(PIP)

2X4 SIGNAL



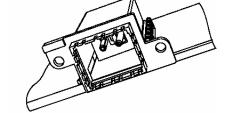
72844LF(STB), 72858LF(PIP)

**4X6 SIGNAL** 



10022805LF, 10051941-201LF

**3X24 SIGNAL** 



72846LF(STB) POWER

	TYPE	NUMBER	
FCI	APPLICATION SPECIFICATION	<i>G</i> S-20-049	
TITLE		PAGE	REVISION
Metral Sofix®		2 of 44	С
P/N: 72860LF,52088LF,72844LF,72858LF,10022805LF,10051941LF-		AUTHORIZED BY	DATE (MM/DD/YY)
201LF,72846LF		J.Taron	02/15/2007
STATUS RELEASED		SED	

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201LF,72846LF		J.Taron	02/15/2007
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## 5. Document Revision Information - - - - - - 44

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201LF,72846LF		J.Taron	02/15/2007
		STATUS RELEAS	SED

## 1.PART A- 2X4 SIGNAL

#### 1.1 General

#### 1.1.1 General Information

The specification is valid for the Lead Free/RoHS compatible products. This document describes the assembly process of Signal connector 72860LF and 52088LF and the tools involved in the process. Also referring to GS-12-307.

## 1.2 Connector Definition

#### 1.2.1 Shielded right angle signal connector

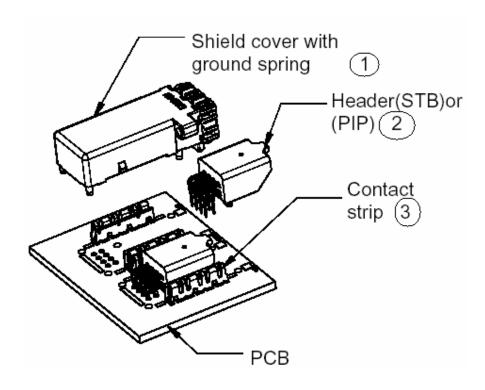
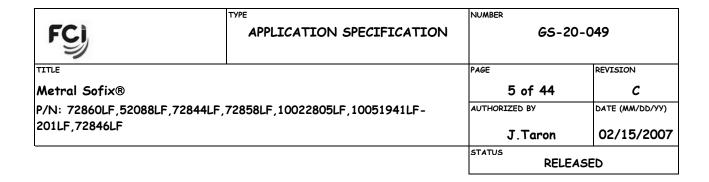


fig.1

#### 1.2.2 Component List

For the list of the components used in the assembly refer customer drawing.



## 1.3 Front Face Board

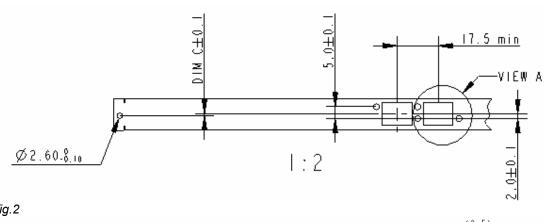


fig.3

	TYPE	NUMBER	
FCI	APPLICATION SPECIFICATION	GS-20-0	049
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201LF,72846LF		J.Taron	02/15/2007
		STATUS RELEAS	ED

## 1.4 Layout Definition

#### 1.4.1 Hole Definition

## 1.4.1.1 Solder to Board (STB)

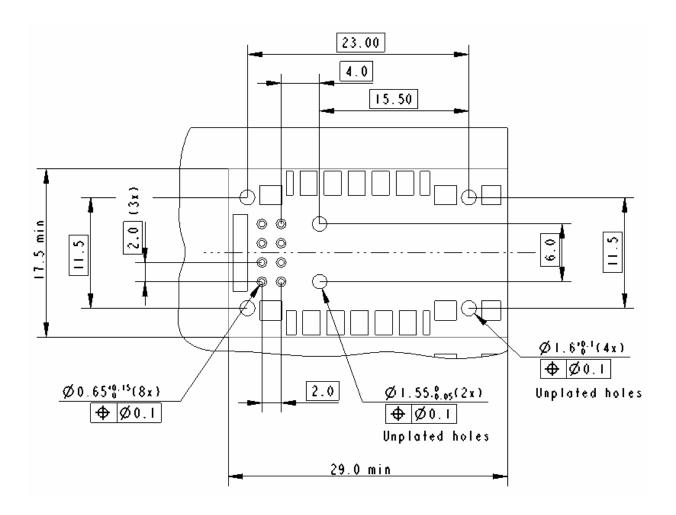


fig.5

	TYPE	NUMBER	
FCI	APPLICATION SPECIFICATION	<i>G</i> 5-20	-049
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201LF,72846LF		J.Taron	02/15/2007
STATUS RELEASEI		SED	

## 1.4.1.2 Pin In Paste (PIP)

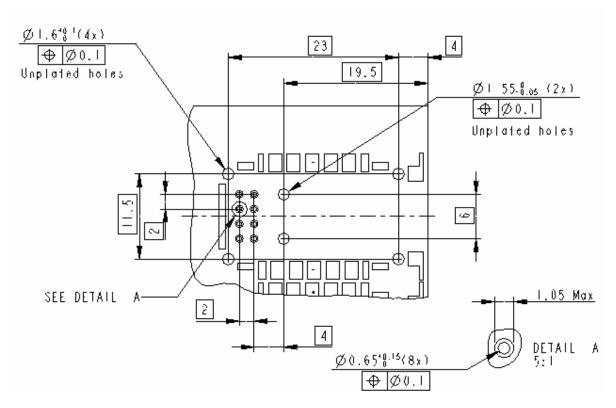


fig.6

	TYPE	NUMBER	
FCI	APPLICATION SPECIFICATION	<i>G</i> 5-20-0	049
TITLE		PAGE	REVISION
Metral Sofix®		8 of 44	С
P/N: 72860LF,52088LF,72844LF,72858LF,10022805LF,10051941LF-		AUTHORIZED BY	DATE (MM/DD/YY)
201LF,72846LF		J.Taron	02/15/2007
		STATUS RELEAS	ED

#### 1.4.2 Pad Definition

## 1.4.2.1 Solder to Board (STB)

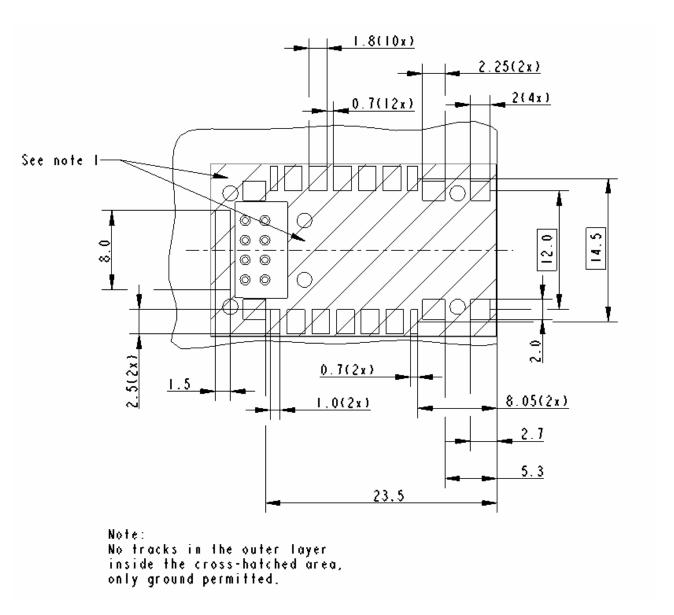


fig.7

	TYPE	NUMBER	
FCI	APPLICATION SPECIFICATION	<i>G</i> S-20-0	)49
TITLE		PAGE	REVISION
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P/N: 72860LF,52088LF,72844LF,72858LF,10022805LF,10051941LF-		AUTHORIZED BY	DATE (MM/DD/YY)
201LF,72846LF		J.Taron	02/15/2007
		STATUS RELEAS	ED

## 1.4.2.2 Pin in Paste (PIP)

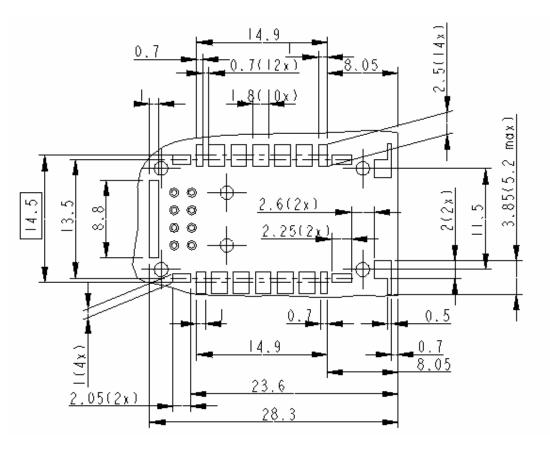


fig.8

## 1.5 Instructions

	TYPE	NUMBER	
FCI	APPLICATION SPECIFICATION	<i>G</i> 5-20-	049
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201LF,72846LF		J.Taron	02/15/2007
STATUS		STATUS RELEAS	ED

## 1.5.1 Surface mounting of contact strip

In common production processes, the contact strip is automatically mounted in surface mounting machine after the screen printing process. After re-flow soldering the contact strip shall be mounted acc. to mounting tolerances ,see fig.8.

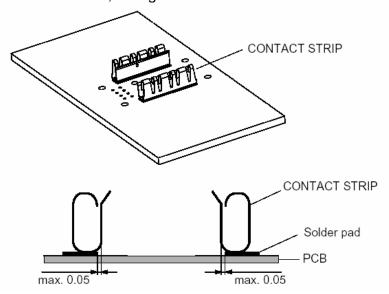


fig.9

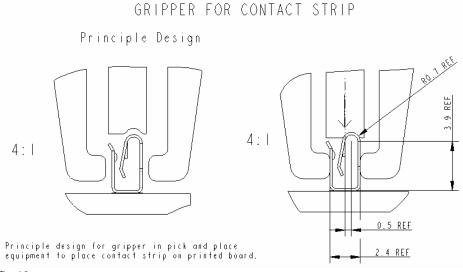


fig.10

	TYPE	NUMBER	
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201LF,72846LF		J.Taron	02/15/2007
		STATUS RELEASED	

## 1.5.2 Mounting Header

If the height of the connector is missing in the process control, before wave soldering a soldering fixture with a pressure mechanism over the connector is used to secure the correct mounting of the connector.

## 1.5.2.1 Solder to Board (STB)

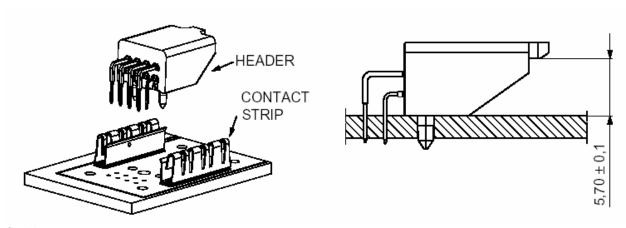


fig.11

## 1.5.2.2 Pin in Paste (PIP)

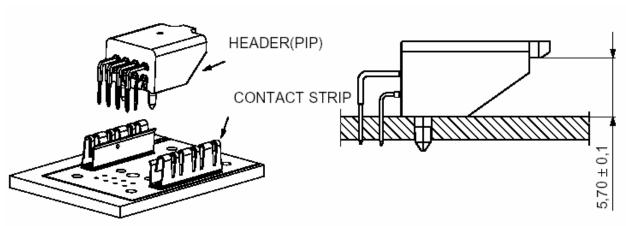


fig.12

	TYPE	NUMBER	
FCI	APPLICATION SPECIFICATION	<i>G</i> S-20-049	
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Metral Sofix®		12 of 44	С
P/N: 72860LF,52088LF,72844LF,72858LF,10022805LF,10051941LF-		AUTHORIZED BY	DATE (MM/DD/YY)
201LF,72846LF		J.Taron	02/15/2007
		STATUS RELEASED	

# 1.5.3 Mounting Cover

Metal cover with contact strip is mounted together with other front mechanics. Mounting mode see GS-12-307.

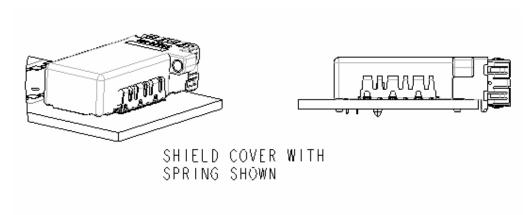
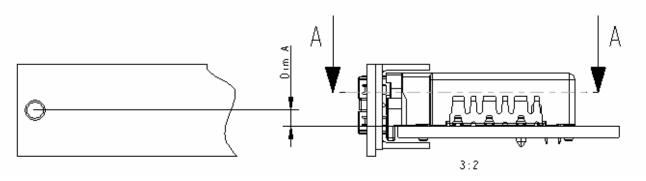


fig.13

	TYPE	NUMBER	
FCI	APPLICATION SPECIFICATION	<i>G</i> S-20-049	
TITLE		PAGE	REVISION
Metral Sofix®		13 of 44	С
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201LF,72846LF		J.Taron	02/15/2007
		STATUS RELEASED	

## 1.5.4. Position of ground spring and connector in final assembly from front panel



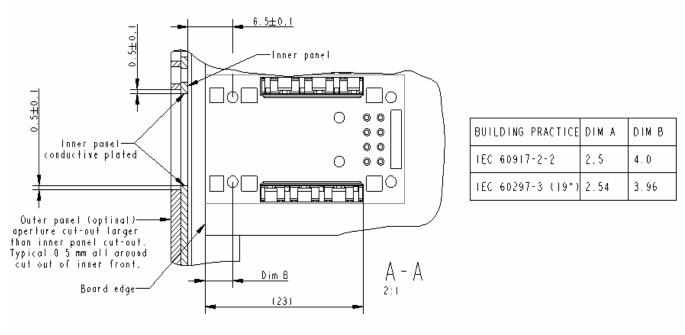


fig.14

	TYPE	NUMBER	
FCI	APPLICATION SPECIFICATION	<i>G</i> S-20-049	
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Metral Sofix®		14 of 44	С
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201LF,72846LF		J.Taron	02/15/2007
		STATUS RELEASED	

## 2. PART B- 4X6 SIGNAL

#### 2.1 General

#### 2.1.1General Information

The specification is valid for the Lead Free/RoHS compatible products. This document describes the assembly process of Signal connector 72844LF and 72858LF and the tools involved in the process. Also referring to GS-12-307.

#### 2.2 Connector definition

#### 2.2.1 Shielded right angle single connector

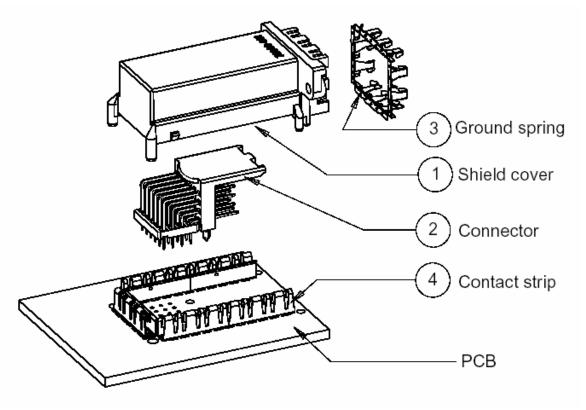
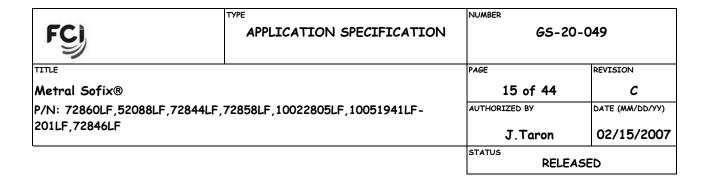


fig.1

#### 2.2.2.Component List

For the list of the components used in the assembly refer customer drawing.



## 2.3 Front Face Board

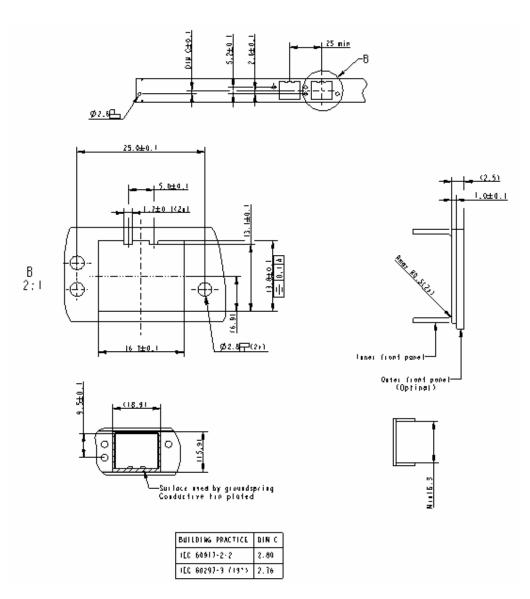


fig.2

	TYPE	NUMBER	
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TITLE		PAGE	REVISION
Metral Sofix®		16 of 44	С
P/N: 72860LF,52088LF,72844LF,72858LF,10022805LF,10051941LF-		AUTHORIZED BY	DATE (MM/DD/YY)
201LF,72846LF		J.Taron	02/15/2007
		STATUS RELEASED	

## 2.4. Layout Definition

#### 2.4.1.Hole Definition

## 2.4.1.1. Solder to Board (STB)

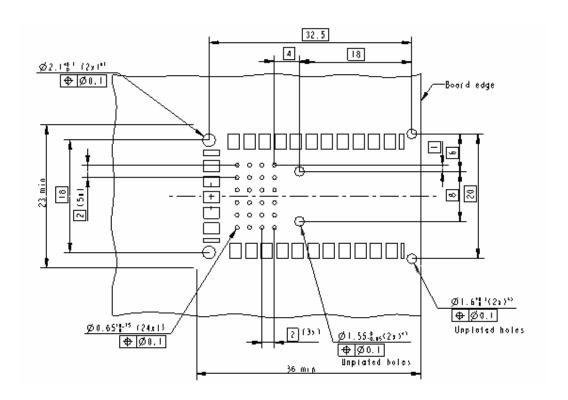


fig.3

43-13 E- 1400	TYPE	NUMBER	
FCI	APPLICATION SPECIFICATION	<i>G</i> S-20-049	
TITLE		PAGE	REVISION
Metral Sofix®		17 of 44	С
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201LF,72846LF		J.Taron	02/15/2007
		STATUS RELEASED	

## 2.4.1.2. Pin in Paste (PIP)

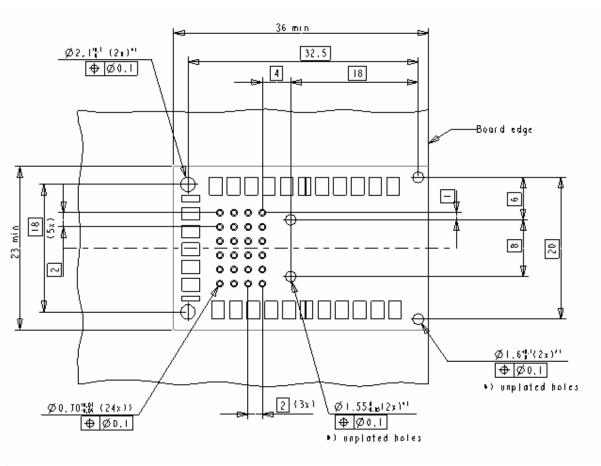


fig.4

st-sta recording	TYPE	NUMBER	
FCj	APPLICATION SPECIFICATION	<i>G</i> S-20-049	
TITLE		PAGE	REVISION
Metral Sofix®		18 of 44	С
P/N: 72860LF,52088LF,72844LF,72858LF,10022805LF,10051941LF-		AUTHORIZED BY	DATE (MM/DD/YY)
201LF,72846LF		J.Taron	02/15/2007
		STATUS RELEASED	

#### 2.4.2 Pad Definition

## 2.4.2.1. Solder to Board (STB)

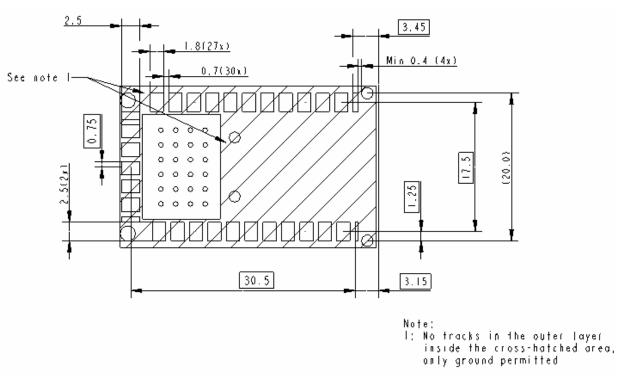
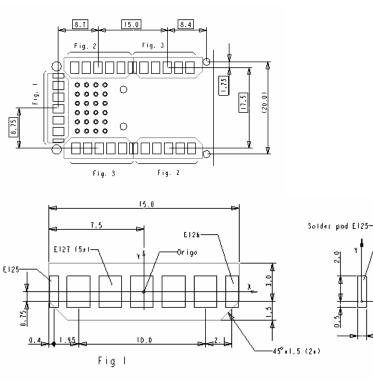


fig.5

en-en-en-en-en-en-en-en-en-en-en-en-en-e	TYPE	NUMBER	
FCI	APPLICATION SPECIFICATION	<i>G</i> S-20-0	049
TITLE		PAGE	REVISION
Metral Sofix®		19 of 44	С
P/N: 72860LF,52088LF,72844LF,72858LF,10022805LF,10051941LF-		AUTHORIZED BY	DATE (MM/DD/YY)
201LF,72846LF		J.Taron	02/15/2007
		STATUS RELEASED	

## 2.4.2.2. Pin in Paste (PIP)



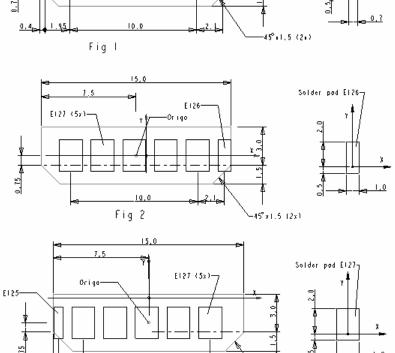


Fig 3

fig.6

-45°×1.5 {2>1

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FCI	APPLICATION SPECIFICATION	GS-20-0	049
TITLE		PAGE	REVISION
Metral Sofix®		20 of 44	С
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201LF,72846LF		J.Taron	02/15/2007
		STATUS RELEASED	

## 2.5.Instructions

## 2.5.1 Surface mounting of contact strip

In common production the contact strip is automatically mounted in surface

mounting machine after the screen printing process.

After re-flow soldering the contact strip shall be controlled according to mounting tolerances in fig.7.

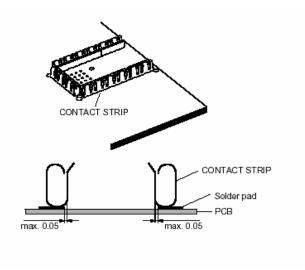


fig.7

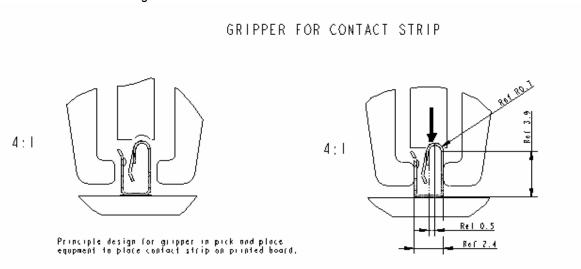


fig.8

STATE SECURIOR	TYPE	NUMBER	
FCI	APPLICATION SPECIFICATION	<i>G</i> S-20-0	049
TITLE	L	PAGE	REVISION
Metral Sofix®		21 of 44	С
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201LF,72846LF		J.Taron	02/15/2007
		STATUS RELEASED	

#### 2.5.2 Mounting Header

If the height of the connector is missing in the process control, before wave soldering, a soldering fixture with a pressure mechanism over the connector is used to secure the correct mounting of the connector.

After wave soldering the connector shall be controlled according to mounting tolerances

#### 2.5.2.1 Solder To Board (STB)

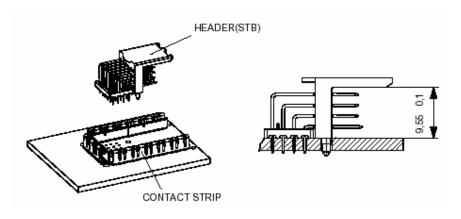


fig.9

#### 2.5.2.2. Pin in Paste (PIP)

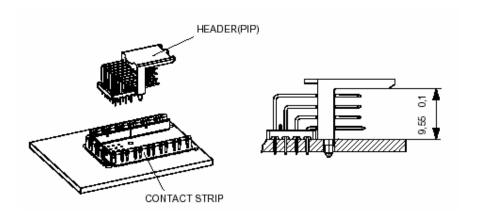


fig.10

	TYPE	NUMBER	
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201LF,72846LF		J.Taron	02/15/2007
		STATUS RELEASED	

## 2.5.3. Mounting Cover

Metal cover with contact strip is mounted together with front mechanics.

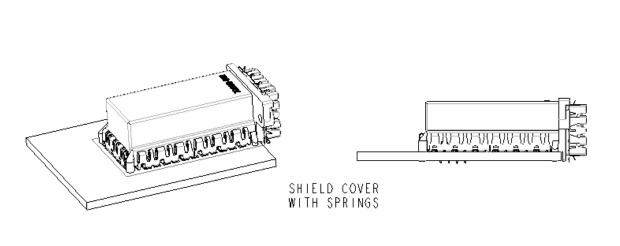


fig.11

	TYPE	NUMBER	
FCI	APPLICATION SPECIFICATION	GS-20-0	049
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201LF,72846LF		J.Taron	02/15/2007
		STATUS RELEASED	

## 2.5.4 Position of ground spring and connector in final assembly from front panel

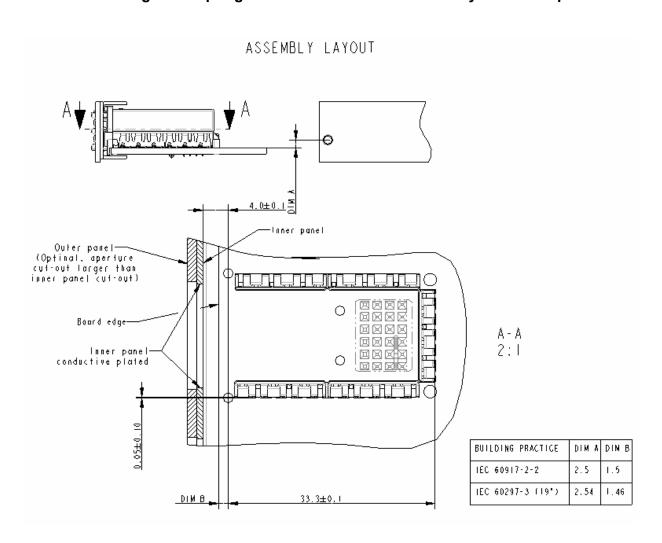


fig.12

	TYPE	NUMBER	
FCI	APPLICATION SPECIFICATION	<i>G</i> 5-20	-049
TITLE		PAGE	REVISION
Metral Sofix®		24 of 44	С
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201LF,72846LF		J.Taron	02/15/2007
		STATUS RELEASED	

## 3.PART C- 3x24 SIGNAL

#### 3.1General

#### 3.1.1General Information

The specification is valid for the Lead Free/RoHS compatible products. This document describes the assembly process of Signal connector 10022805 and 10051941-201LF and the tools involved in the process. Also referring to GS-12-307.

#### 3.2 Connector definition

## 3.2.1 Shielded right angle connector

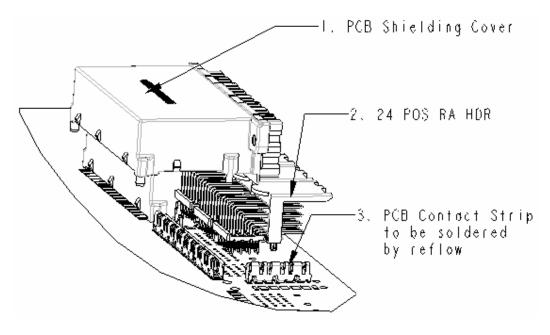


fig.1

#### 3.2.2. Component List

For the list of the components used in the assembly refer customer drawing.

	TYPE	NUMBER	
FCI	APPLICATION SPECIFICATION	GS-20-0	049
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201LF,72846LF		J.Taron	02/15/2007
		STATUS RELEASED	

## 3.3 Front Face Board

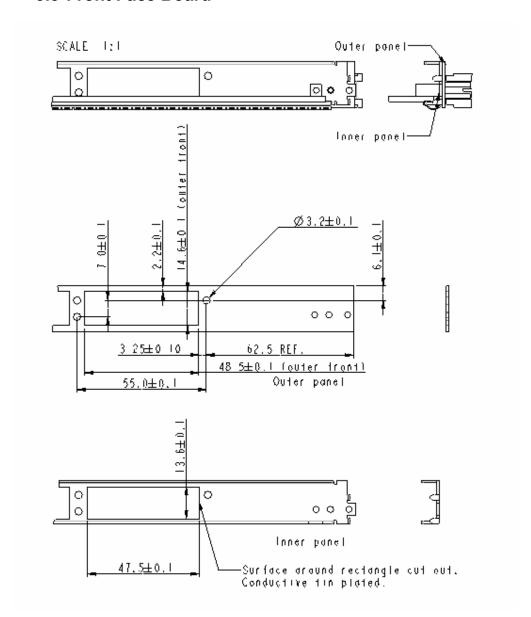


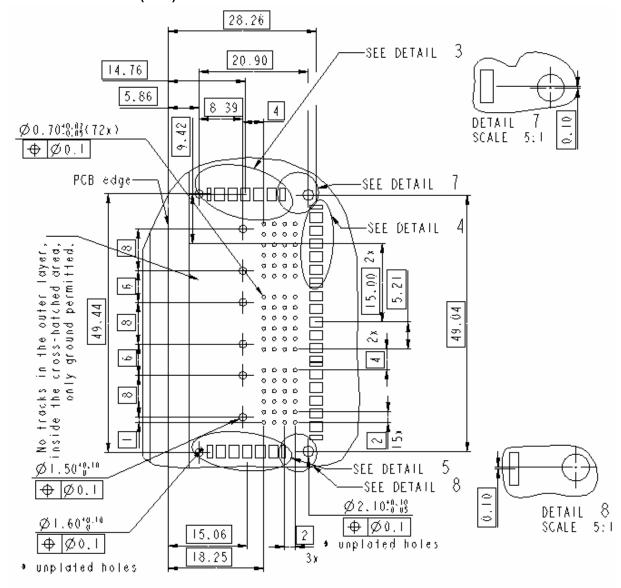
fig.2

o-o-e-magn	TYPE	NUMBER	
FCI	APPLICATION SPECIFICATION	<i>G</i> S-20-0	049
TITLE		PAGE	REVISION
Metral Sofix®		26 of 44	С
P/N: 72860LF,52088LF,72844LF,72858LF,10022805LF,10051941LF-		AUTHORIZED BY	DATE (MM/DD/YY)
201LF,72846LF		J.Taron	02/15/2007
		STATUS RELEASED	

## 3.4. Layout Definition

#### 3.4.1.Hole Definition

#### 3.4.1.1. Solder to Board (STB)



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201LF,72846LF		J.Taron	02/15/2007
		STATUS RELEASED	

#### suite

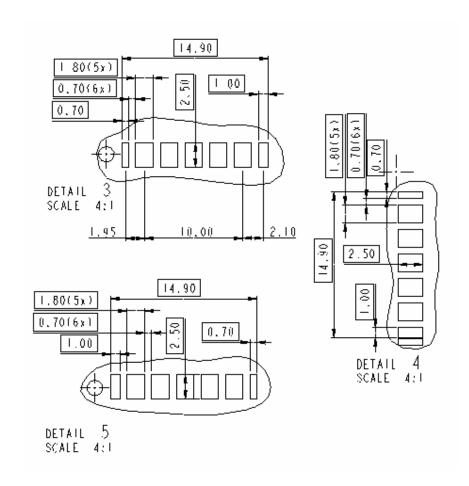
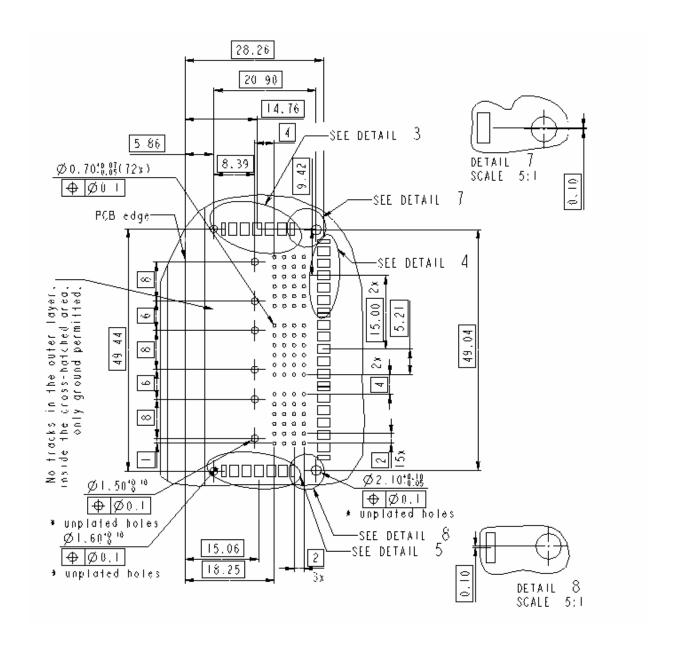


fig.3

en-en-en-en-en-en-en-en-en-en-en-en-en-e	TYPE	NUMBER	
FCI	APPLICATION SPECIFICATION	<i>G</i> S-20-0	049
TITLE		PAGE	REVISION
Metral Sofix®		28 of 44	С
P/N: 72860LF,52088LF,72844LF,72858LF,10022805LF,10051941LF-		AUTHORIZED BY	DATE (MM/DD/YY)
201LF,72846LF		J.Taron	02/15/2007
		STATUS RELEASED	

#### 3.4.1.2.Pin in Paste



	TYPE	NUMBER	
FCI	APPLICATION SPECIFICATION	<i>G</i> S-20-0	049
TITLE		PAGE	REVISION
Metral Sofix®		29 of 44	С
P/N: 72860LF,52088LF,72844LF,72858LF,10022805LF,10051941LF-		AUTHORIZED BY	DATE (MM/DD/YY)
201LF,72846LF		J.Taron	02/15/2007
		STATUS RELEAS	ED

#### suite

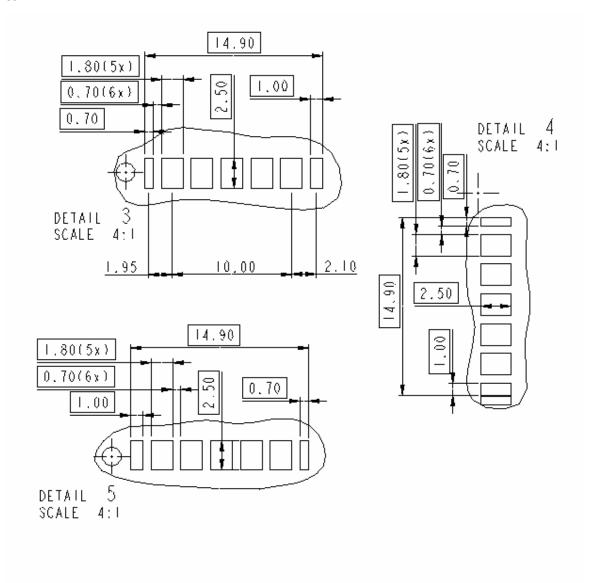
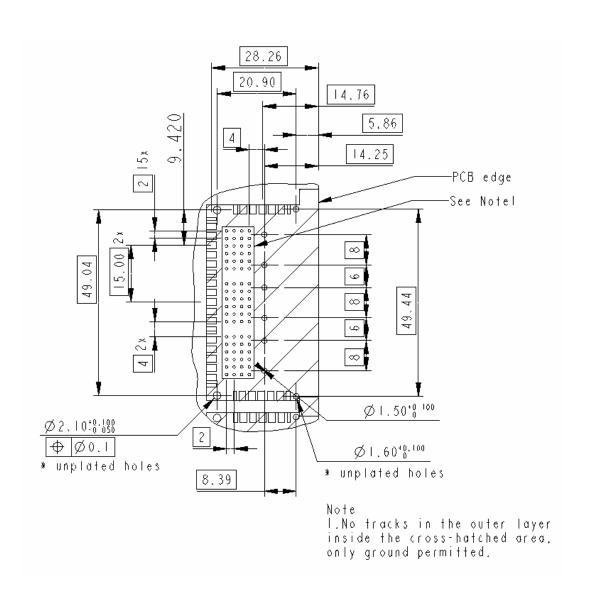


fig.4

	TYPE	NUMBER	
FCI	APPLICATION SPECIFICATION	<i>G</i> S-20-0	)49
TITLE		PAGE	REVISION
Metral Sofix®		30 of 44	С
P/N: 72860LF,52088LF,72844LF,72858LF,10022805LF,10051941LF-		AUTHORIZED BY	DATE (MM/DD/YY)
201LF,72846LF		J.Taron	02/15/2007
		STATUS RELEASED	

#### 3.4.2 Pad Definition

## 3.4.2.1. Solder to Board(STB)



	TYPE	NUMBER	
FCI	APPLICATION SPECIFICATION	<i>G</i> S-20-	-049
TITLE		PAGE	REVISION
Metral Sofix®		31 of 44	С
P/N: 72860LF,52088LF,72844LF,72858LF,10022805LF,10051941LF-		AUTHORIZED BY	DATE (MM/DD/YY)
201LF,72846LF		J.Taron	02/15/2007
		STATUS RELEASED	

## 3.4.2.2. Pin in Paste(PIP)

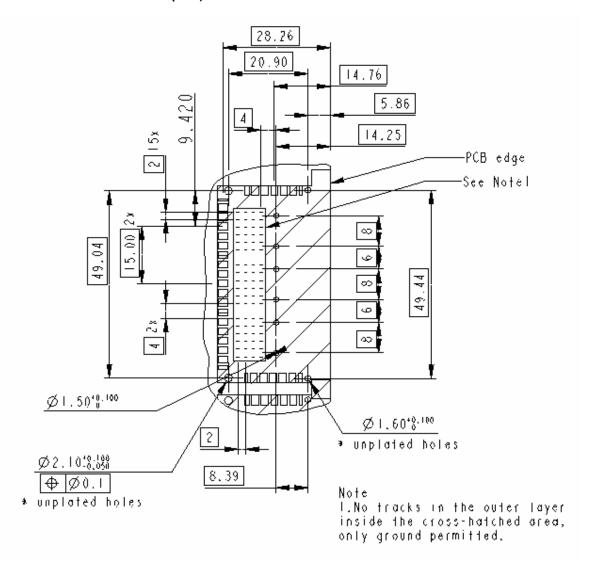


fig.6

	ТУРЕ	NUMBER	
FCI	APPLICATION SPECIFICATION	<i>G</i> S-20-	049
TITLE	L	PAGE	REVISION
Metral Sofix®		32 of 44	С
P/N: 72860LF,52088LF,72844LF,72858LF,10022805LF,10051941LF-		AUTHORIZED BY	DATE (MM/DD/YY)
201LF,72846LF		J.Taron	02/15/2007
		STATUS RELEASED	

#### 3.5.Instructions

## 3.5.1. Surface mounting of contact strip

In common production the contact strip is automatically mounted in surface mounting machine after the screen printing process.

After re-flow soldering the contact strip shall be controlled according to mounting tolerances in fig.7.

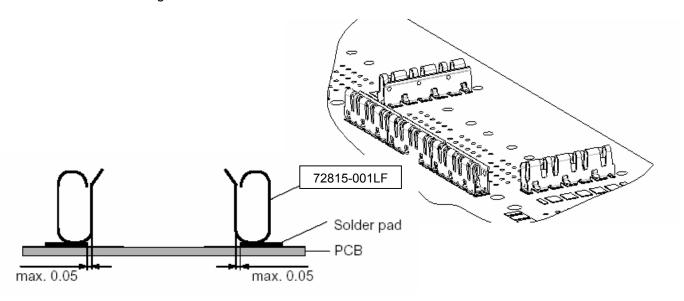


fig.7

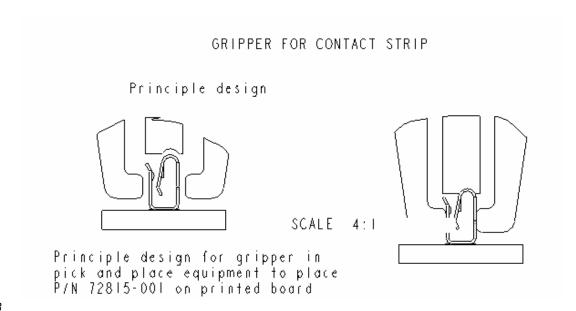


fig.8

	TYPE	NUMBER	
FCI	APPLICATION SPECIFICATION	<i>G</i> 5-20	-049
TITLE		PAGE	REVISION
Metral Sofix®		33 of 44	С
P/N: 72860LF,52088LF,72844LF,72858LF,10022805LF,10051941LF-		AUTHORIZED BY	DATE (MM/DD/YY)
201LF,72846LF		J.Taron	02/15/2007
		STATUS RELEASED	

## 3.5.2 Mounting Header

If the height of the connector is missing in the process control, before wave soldering, a soldering fixture with a pressure mechanism over the connector is used to secure the correct mounting of the connector. After wave soldering the connector shall be controlled according to mounting tolerances

## 3.5.2.1 Solder To Board (STB)

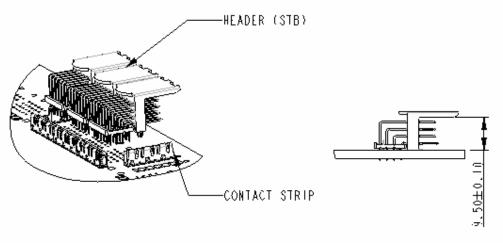


fig.9

#### 3.5.2.2 Pin in Paste(PIP)

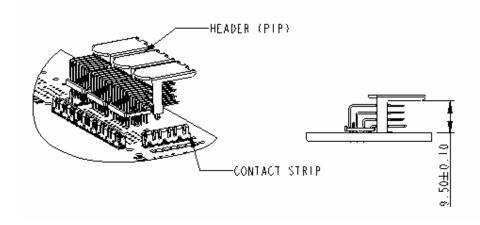


fig.10

en-en-en-en-en-en-en-en-en-en-en-en-en-e	TYPE	NUMBER	
FCI	APPLICATION SPECIFICATION	<i>G</i> S-20-049	
TITLE		PAGE	REVISION
Metral Sofix®		34 of 44	С
P/N: 72860LF,52088LF,72844LF,72858LF,10022805LF,10051941LF-		AUTHORIZED BY	DATE (MM/DD/YY)
201LF,72846LF		J.Taron	02/15/2007
		STATUS RELEASED	

## 3.5.3. Mounting Cover

Metal cover with contact strip is mounted together with front mechanics.

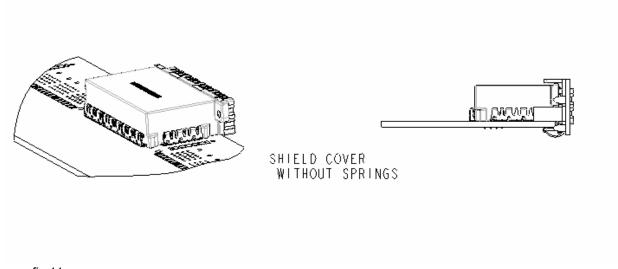


fig.11

	TYPE	NUMBER	
FCI	APPLICATION SPECIFICATION	<i>G</i> 5-20-	049
TITLE		PAGE	REVISION
Metral Sofix®		35 of 44	С
P/N: 72860LF,52088LF,72844LF,72858LF,10022805LF,10051941LF-		AUTHORIZED BY	DATE (MM/DD/YY)
201LF,72846LF		J.Taron	02/15/2007
		STATUS RELEASED	

## 3.5.4 Position of ground spring and connector in final assembly from front panel

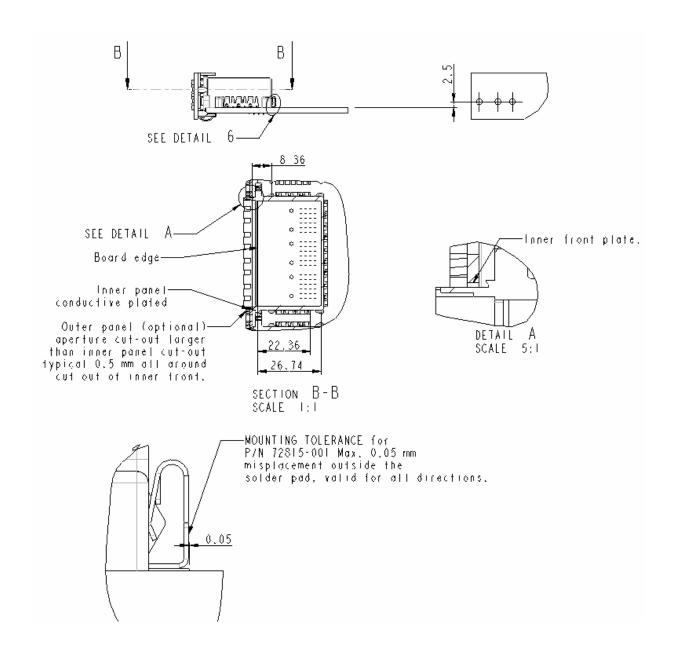


fig.12

STATE SECURIOR	TYPE	NUMBER	
FCI	APPLICATION SPECIFICATION	<i>G</i> S-20-049	
TITLE		PAGE	REVISION
Metral Sofix®		36 of 44	С
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201LF,72846LF		J.Taron	02/15/2007
		STATUS RELEASED	

## **PART D- POWER**

#### 4.1 General

#### 4.1.1General Information

The specification is valid for the Lead Free/RoHS compatible products. This document describes the assembly process of Signal connector 72844LF and 72858LF and the tools involved in the process. Also referring to GS-12-307.

#### 4.2 Connector definition

#### 4.2.1 Power connector

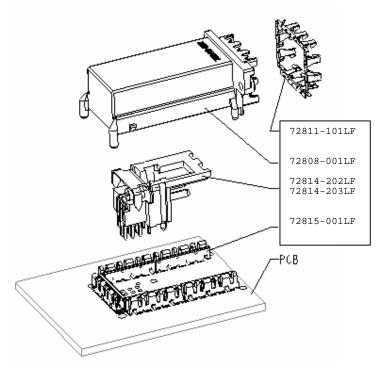
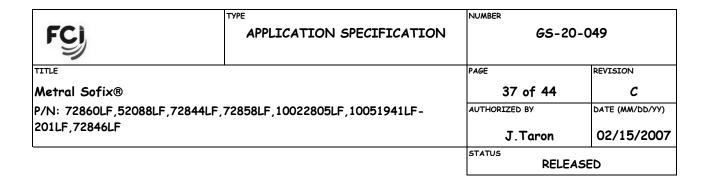


fig:1

#### 4.2.2. Component List

For the list of the components used in the assembly refer customer drawing.



## 4.3 Front Face Board

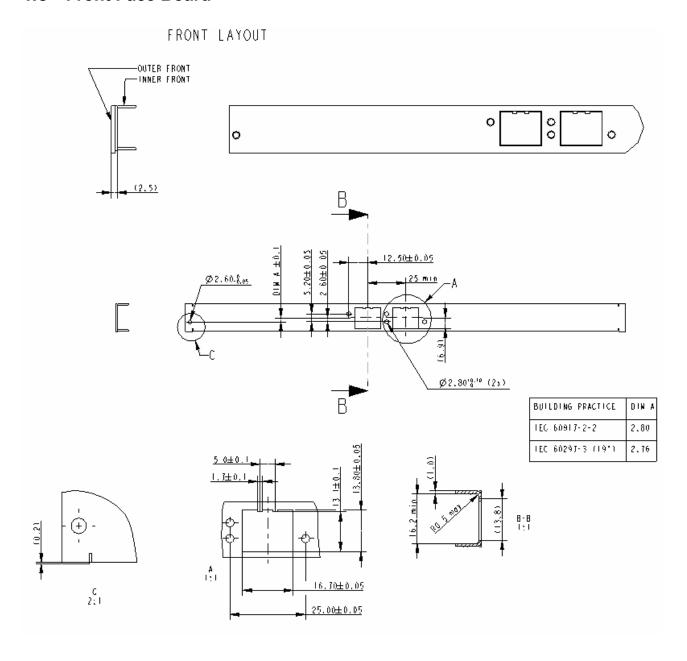
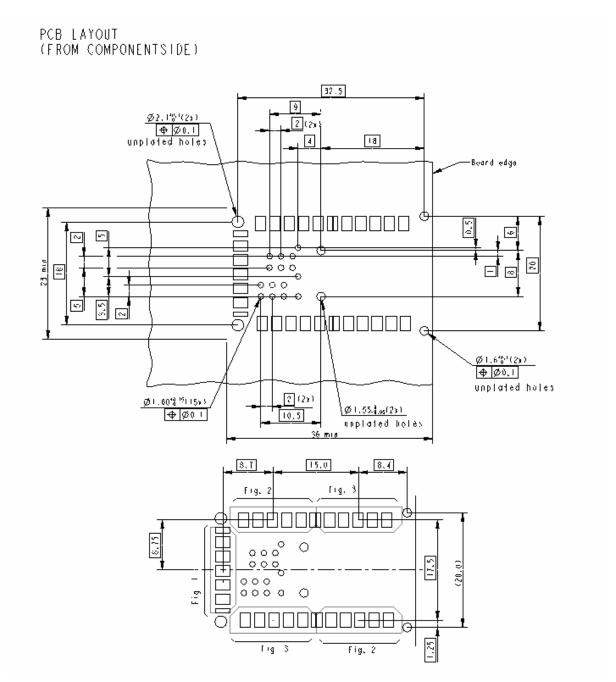


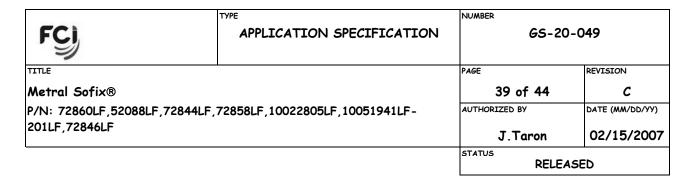
fig:2

	TYPE	NUMBER	
FCI	APPLICATION SPECIFICATION	<i>G</i> S-20-049	
TITLE		PAGE	REVISION
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		AUTHORIZED BY	DATE (MM/DD/YY)
201LF,72846LF		J.Taron	02/15/2007
		RELEASED	

## 4.4. Layout Definition

## 4.4.1. Hole Definition (Solder to Board (STB))





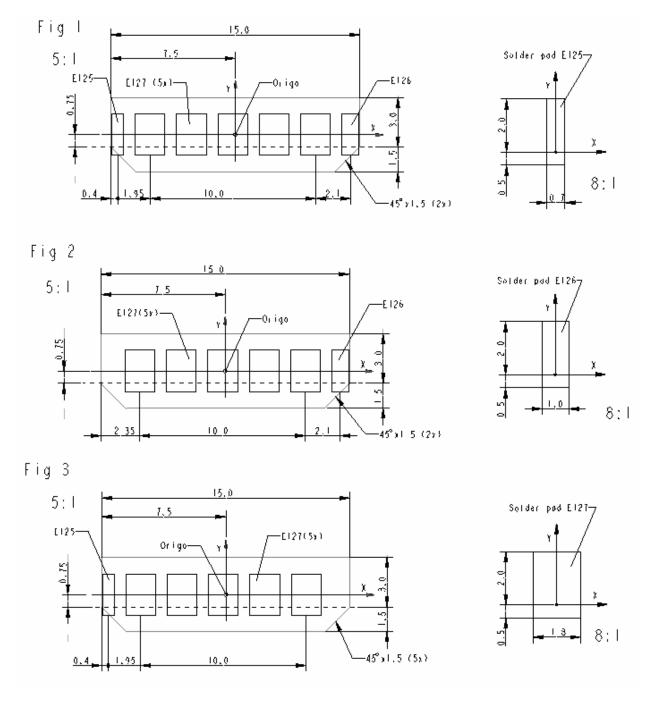


fig:3

	TYPE	NUMBER	
FCI	APPLICATION SPECIFICATION	<i>G</i> S-20-049	
TITLE		PAGE	REVISION
Metral Sofix®		40 of 44	С
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201LF,72846LF		J.Taron	02/15/2007
		STATUS RELEASED	

#### 4.4.2 Pad Definition

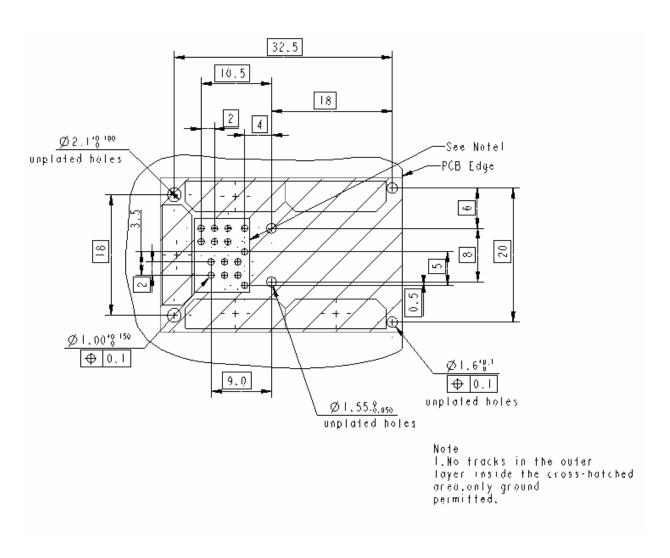


fig:4

#### 4.5 Instructions

-1	TYPE	NUMBER	
FCI	APPLICATION SPECIFICATION	<i>G</i> S-20-049	
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201LF,72846LF		J.Taron	02/15/2007
		STATUS RELEASED	

#### 4.5.1. Surface mounting of contact strip

In common production the contact strip is automatically mounted in surface mounting machine after the screen printing process.

After re-flow soldering the contact strip shall be controlled according to mounting tolerances in fig.5.

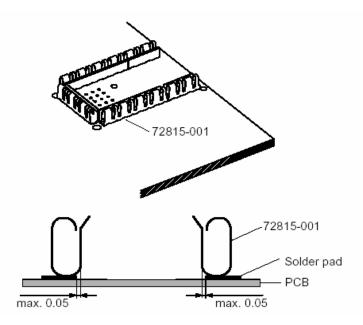


fig:5

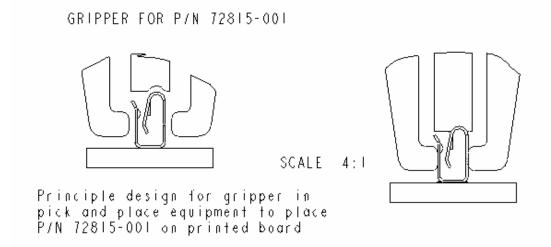


fig:6

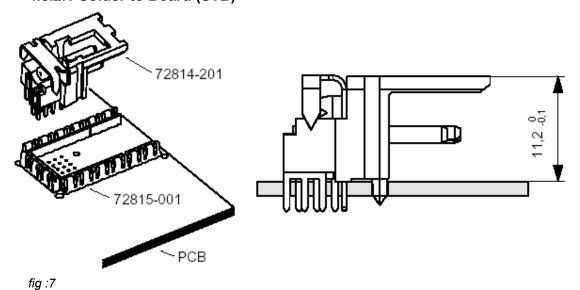
#### 4.5.2 Mounting Header

	TYPE	NUMBER	
FCI	APPLICATION SPECIFICATION	<i>G</i> S-20-049	
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201LF,72846LF		J.Taron	02/15/2007
		RELEASED	

As soon as possible after the mounting process the connector 72814-201LF is to be wave soldered, to avoid mounting problems. If the height of the connector is missing in the process control, before wave soldering, see fig. 6,a soldering fixture with a pressure mechanism.

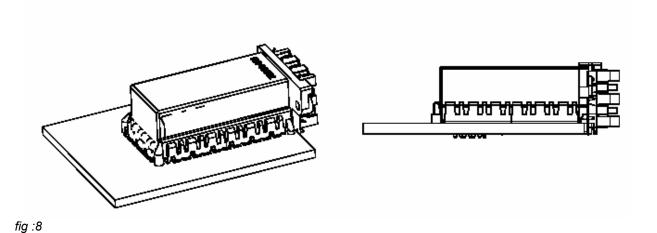
After wave soldering the connector shall be controlled according to mounting tolerances

#### 4.5.2.1 Solder to Board (STB)

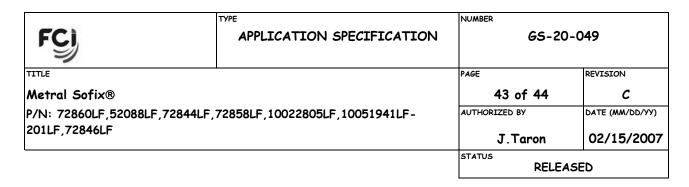


## 4.5.3. Mounting Cover

Metal cover 72808-001LF and contact strip 72811-001LF is mounted together with other front mechanics.



4.5.4 Position of ground spring and connector in final assembly from front panel



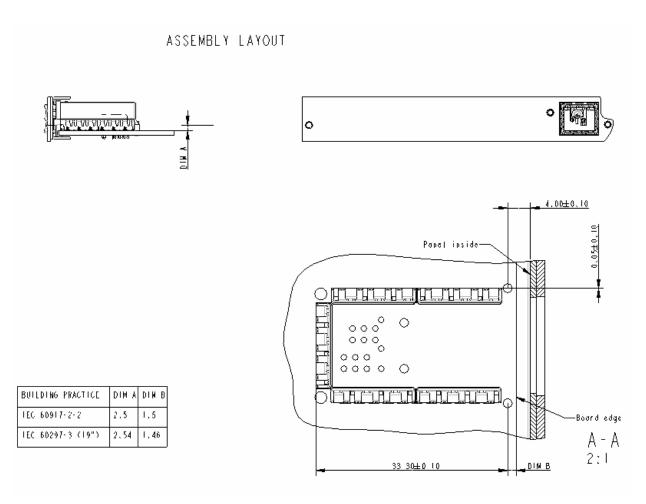


fig:9

STATE SECURIOR	TYPE	NUMBER	
FCI	APPLICATION SPECIFICATION	<i>G</i> S-20-049	
TITLE		PAGE	REVISION
Metral Sofix®		44 of 44	С
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201LF,72846LF		J.Taron	02/15/2007
		STATUS RELEASED	

# **5.Document Revision Information**

REV	PAGE	DESCRIPTION	EC#	DATE
Α	ALL	NEW DOCUMENT	LS05-0014	01-05-2005
В	ALL	NEW LOGO	LS06-0109	07-04-2006
С	ALL	UPDATE DOCUMENT FOR LF PN ADDED	LS07-0045	02-15-2007