

<b>Input Output</b> Precise Corp.	<b>PRODUCT SPECIFICATION</b> SMA STRAIGHT JACK PCB RECEPTACLE	DOC. No: WL-TL-17 DATE: 10-AUG-01 REV. : D
--------------------------------------	---	--

**PRODUCT NAME**

**SMA STRAIGHT JACK  
PANEL RECEPTACLE WITH 2 HOLE**

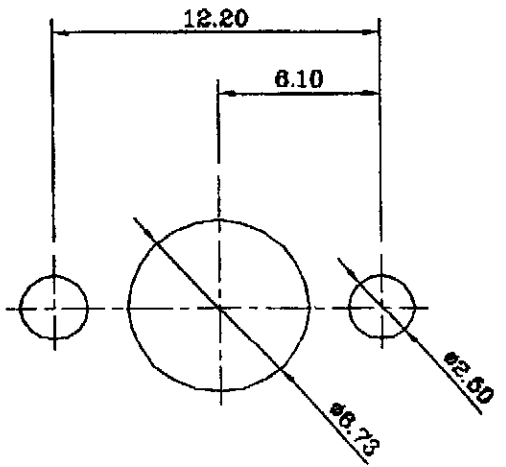
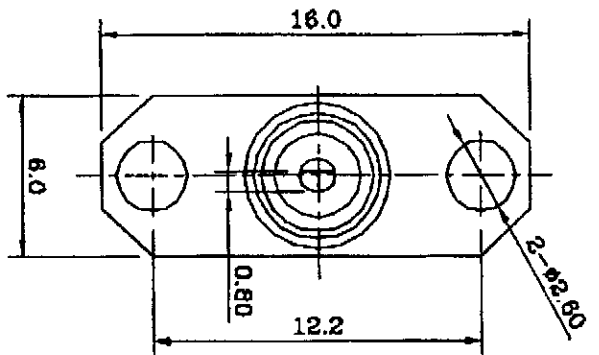
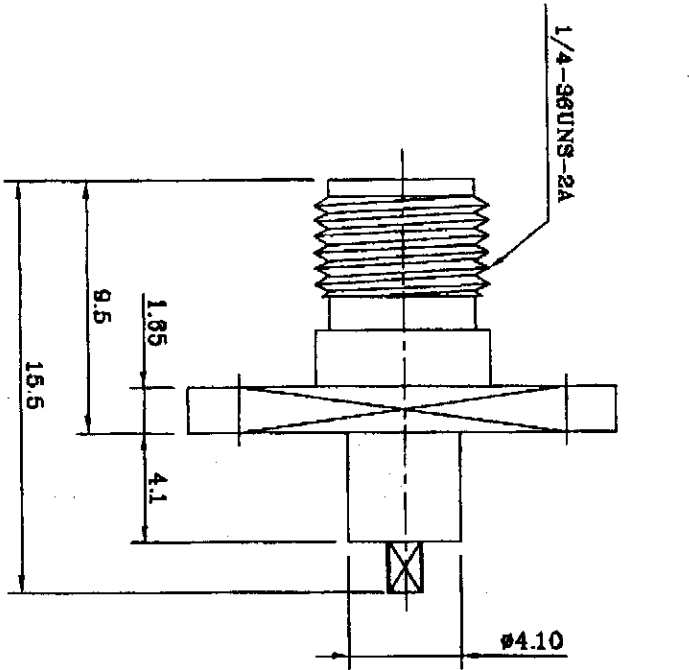
**PART NUMBER**

**■ S-A513-900A**

**Signed By Customers**

**Approved By:**

--



Recommended panel hole

**ELECTRICAL RATINGS:**  
 1. Impedance : 50 ohms  
 2. Frequency Range : 0-12.4GHz  
 3. Working Voltage : 500 Vrms maximum  
 4. Dielectric Withstanding Voltage : 1500 Vrms maximum  
 5. Insulator Resistance : 5000 Megohms minimum

WASHER	BRASS	GOLD
CONTACT	PERFLUOROPOLYETHER	GOLD
INSULATOR	TEFLON	NONE
BODY	BRASS	GOLD
DESCRIPTION	MATERIALS	FINISHED

REV. DESCRIPTION		ECN	DRAWN	DATE	TOLERANCES: DIM. XI--F&I UNLESS SHOWN XXX--20.06		TITLE: SMA STRAIGHT JACK PANEL RECEPTACLE WITH 2-HOLE AND EXPOSED TEFLO		DESIGNED: TINA 01-24-2000		DRAWN: TINA 01-24-2000		CHECKED: APPROVAL:		LAYER: ASY		REV: B		P/No.: A513-900A		
REVISIONS																					
B	SEE ECN (M92-0929)	03-415	SAMMI	09-24-2003																	
A	NEW RELEASE	99-432	TINA	01-24-2000																	

<b>Input Output</b> Precise Corp.	<b>PRODUCT SPECIFICATION</b> SMA STRAIGHT JACK PCB RECEPTACLE	DOC. No: WL-TL-17 DATE: 10-AUG-01 REV. : D
--------------------------------------	---	--

**Table of contents**

1. SCOPE.....	3
2. APPLICABLE DOCUMENTS.....	3
2.1 Environmental tests.....	3
3. DEFINITIONS.....	3
3.1 SMA STRAIGHT JACK PCB RECEPTACLE.....	3
4. ENVIRONMENTAL REQUIREMENTS.....	3
4.1 Temperature.....	3
4.2 Environmental tests.....	3
5. REQUIREMENTS.....	4
5.1 Material requirements.....	4
5.2 Electrical requirements.....	4
5.3 Mechanical requirements.....	4
6. MANUFACTURING ENVIRONMENT.....	4
6.1 Solde ability.....	4
7. PACKAGING.....	4
7.1 Packaging Code: P0134.....	4

<b>Input Output</b> Precise Corp.	<b>PRODUCT SPECIFICATION</b> SMA STRAIGHT JACK PCB RECEPTACLE	DOC. No: WL-TL-17 DATE: 10-AUG-01 REV. : D
--------------------------------------	---	--

## 1. SCOPE

All details specified in this and other related documentation must be met with. In case of conflict between this specification and other specification, the requirement of this specification has higher priority unless otherwise agreed. All conflicts must immediately be reported to Input Output. All exceptions/ changes must be presented in written format. Specification with higher version number replaces earlier versions.

## 2. APPLICABLE DOCUMENTS

### 2.1 Environmental tests

Corrosion (Salt spray)

Thermal shock

Vibration

Mechanical Shock

MIL-STD-202F

## 3. DEFINITIONS

### 3.1 SMA STRAIGHT JACK PCB RECEPTACLE

3.2 is designed with a  $50\Omega$  characteristic impedance, the working frequency is up to 6 GHz. The reliable snap-on mating design offers "low RF-leakage". Also, the small dimensions allow you to use connectors under critical space requirement. The major application for SMA series connectors is PCMCIA cards, small hand-held communication devices and other similar applications.

## 4. ENVIRONMENTAL REQUIRMENTS

### 4.1 Temperature

Operating temperature range: -65° C up to +165° C

### 4.2 Environmental tests

Salt spray 24 hour

<b>Input Output</b> Precise Corp.	<b>PRODUCT SPECIFICATION</b> SMA STRAIGHT JACK PCB RECEPTACLE	DOC. No: WL-TL-17 DATE: 10-AUG-01 REV. : D
--------------------------------------	---	--

## 5. REQUIREMENTS

### 5.1 Material requirements

Description	Materials	Finished
Body	Brass	Gold 4u"
Insulator	Teflon	None
Contact Pin	Be. Copper	Gold 30u"

### 5.2 Electrical requirements

Impedance	50 ohms
Frequency range	0 to 6 GHz
Working voltage	170 Vrms max
Insulation resistance	500M $\Omega$
Dielectric withstanding voltage	500 Vrms min.
Contact resistance	Center contact: 10.0 M $\Omega$ Outer contact: 5.0 M $\Omega$
VSWR	1.35 max.

### 5.3 Mechanical requirements

Engagement force	4.0Kgw max.
Disengagement force	0.6356Kgw to 1.5436Kgw
Connector durability	500 mating

## 6. MANUFACTURING ENVIRONMENT

### 6.1 Solderability

SMA STRAIGHT JACK PCB RECEPTACLE should withstand 240 °C for 20 seconds minimum. Connector shell should have solderable pins for mounting. Material of pins should be DIP solderable.

## 7. PACKAGING

### 7.1 Packaging Code: P0134

Type	Tray
Quantity	50 pcs