

SUBMINIATURE COAXIAL CONNECTORS

Hermetic SMA range



ISO 9001 APPROVED





Head Office - Rosny sous Bois

Since 1952, **RADIALl** has specialized in the field of coaxial connectors and cables assemblies. **RADIALl**'s experience and high technology focus, combined with our large worldwide production capability have made the company a major supplier of RF coaxial connectors in the world and the number one in Europe.

RESEARCH & DEVELOPMENT

The ever increasing sophistication of microwave communication systems is continually requiring components to meet a higher level of performance. **RADIALl**'s research and development groups understand these needs and are committed to searching for product solutions that will be needed in the future. They also are providing continued improvements to our already extensive lines of high performance products. All our engineer teams are equipped with state of the art equipment and facilities, in an effort to provide the best solutions to our customers.



CAD workstation



Screw-machining shop

MANUFACTURING

RADIALl knows that the quality of the connectors components is directly related to the mechanical precision of the machining process, along with good quality procedures. In an effort to continually meet the highest quality standards, all our production plants are equipped with the latest state of the art production equipment. **RADIALl**'s manufacturing process maintains strict control of all procedures and incorporates all tooling, machining, surface treatment and assembly operations into the manufacturing process of each production group.



Base station of cellular network

HIGH RELIABILITY

Reliability of inter-connection systems is of the utmost importance in telecommunications applications. This industry need has led **RADIALL** to link high performance design, manufacturing and quality control. This has given the company the capability to produce connectors that will operate in the most stringent environments. The wide range of our product offering allows us to propose the best complete solution for your exact need.



Microwave test device

QUALITY ASSURANCE

RADIALL, as a TQM company, continually searches for improvements to the quality process. We operate a Quality Assurance Program that has been developed in accordance with the national and **CECC** agencies (equivalent to **MIL-I-45208** and **MIL-C-45662** standards). This program has enabled us to achieve QPL approval on several of our connector series. **RADIALL**'s Quality Assurance Program operates at all levels of manufacturing from the initial raw incoming material to the final testing procedures just prior to shipping. All test equipment is part of the quality process and is continually inspected on a regular scheduled basis. All production plants in Europe are **AQA P4-NATO** certified.



ISO 9001 ACCREDITATION

This certificate is witness to **RADIALL**'s achievement and commitment to the Total Quality Process. **RADIALL** has always been, since its inception, a company committed to being a Total Quality supplier. Quality is our way of life at **RADIALL**.



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Interconnect solutions dedicated for Military, Aerospace, Telecom and Industrial applications where hermetic seal connectors are requested to maintain a pressurised or vacuum environment inside a package.

1. HERMETIC MICROSTRIP RECEPTACLE WITH SEPARATE GLASS SEAL

(leakage rate below 10^{-8} atm/cm³/sec)

Choice within 4 different glass seals (from dia 0.3 to 0.5mm) to be ordered separately from the receptacle. A ring of solder around the glass seal will give the hermeticity. The pin inside the package can be soldered onto the PCB trace directly or connected to the PCB using the socket option. The receptacle can be removed (field replaceable) from the package for maintenance without any leakage risk. The field replaceable receptacle is recommended when a high number of connections is required.

1.1. Flange receptacle type with separate glass seal

12.4 or 9.5mm 4 holes square flange, jack or plug receptacle type
2 holes narrow flange, jack or plug type

1.2. Screw-on receptacle type with separate glass seal

Panel feedthrough jack receptacle type only

1.3. Cable receptacle type with separate glass seal

2 holes narrow flange receptacle type only

2. HERMETIC MICROSTRIP RECEPTACLE WITH INTEGRATED GLASS SEAL

(leakage rate below 10^{-8} atm/cm³/sec)

The glass seal is already in place inside the receptacle, hermeticity is done by a solder joint between the receptacle and the package or with a metallic compression gasket

2.1. Solder receptacle type with integrated glass seal

Panel feedthrough jack or plug receptacle, not a field replaceable solution

2.2. Screw-on receptacle type with integrated glass seal

Panel feedthrough jack or plug receptacle with metallic compression gasket (superior climatic resistance: -65°C +200°C)

3. HERMETIC MICROSTRIP RECEPTACLE WITHOUT GLASS SEAL

(leakage rate below 10^{-6} atm/cm³/sec)

Lower hermeticity level obtained with a metallic gasket

3.1. Screw-on receptacle type without glass seal

Panel feedthrough jack or plug receptacle

3.2. Panel sealed bulkhead feedthrough adapter

Jack to jack in series adapter





ELECTRICAL PERFORMANCES :

V.S.W.R. to 18 GHz

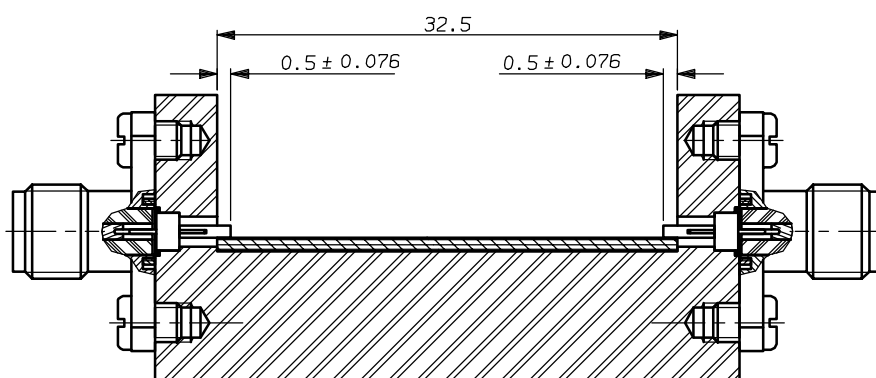
connector only	seal only	connector & seal
$1.04 + 0.006F$ (GHz)	$1.02 + 0.003F$ (GHz)	$1.06 + 0.01F$ (GHz)

V.S.W.R. MEASUREMENT

Setting for V.S.W.R. measurement on field replaceable hermetic receptacle

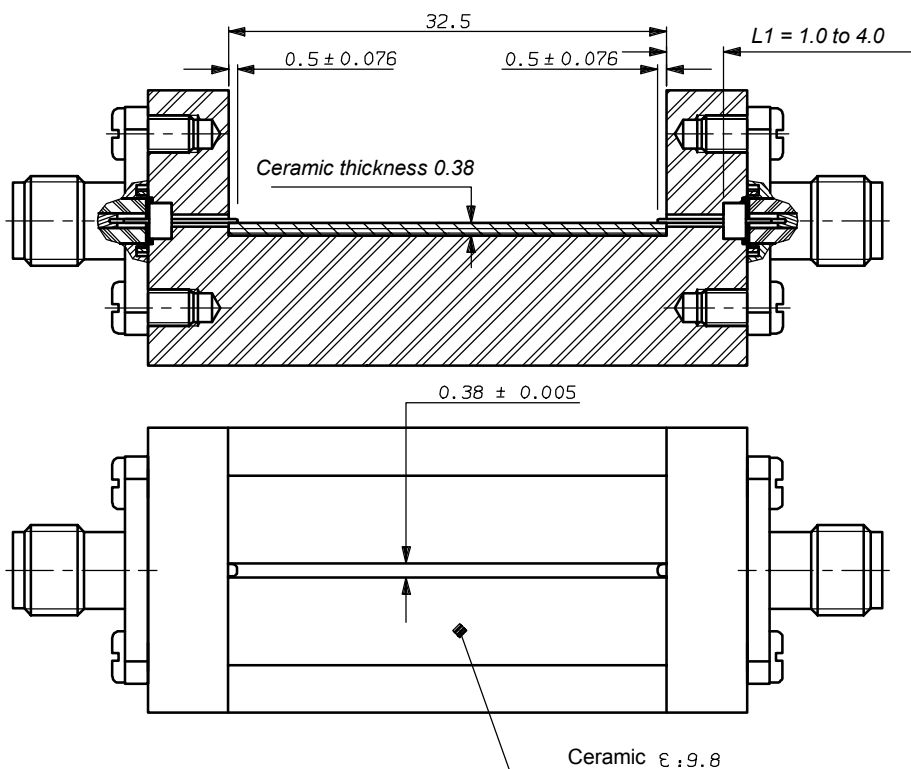
a) Measurement with auxiliary contact-assembly drawing

R280 469 000 (for pin DIA 0.30 mm)
R280 469 010 (for pin DIA 0.46 mm)



b) Measurement without auxiliary contact-assembly drawing

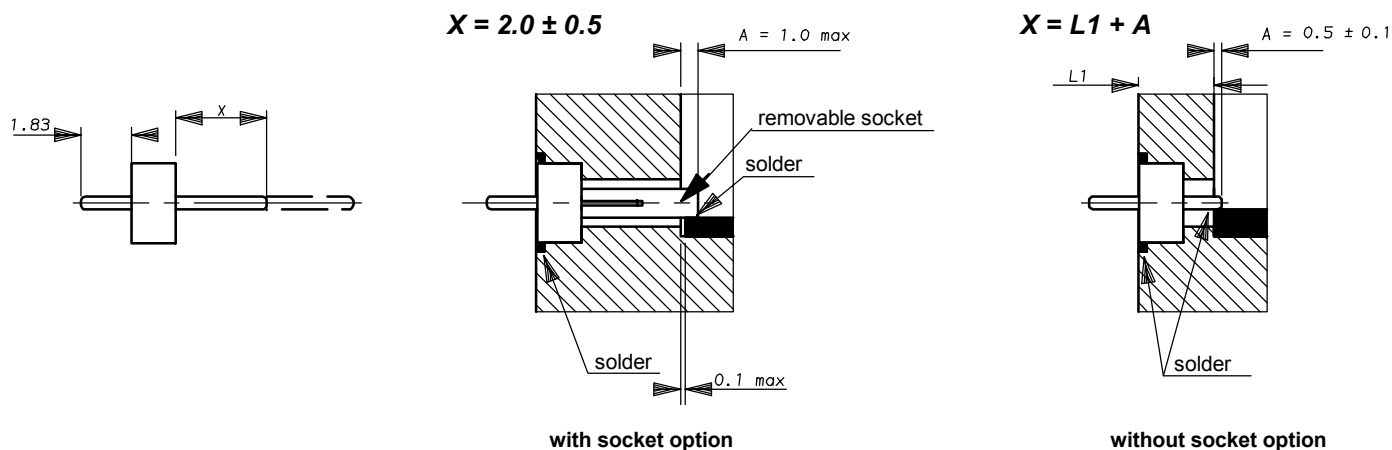
Recommended value : $L1 = 1.0$ mm



The track (width 0.38 mm) on ceramic (thickness 0.38 mm ϵ : 9.8) define the flat circuit impedance.



GLASS SEAL AND CONNECTOR ASSEMBLY INTO THE MICRO ELECTRONIC PACKAGE



GLASS SEAL

- 1 Adjust X by cutting the pin if necessary.
- 2 Introduce the glass seal into its cavity.
- 3 Place a ring of solder in the groove around the glass seal (a 0.3 mm wire dia. of solder is recommended).

- 4 Solder the pin (or optional socket) on the PCB trace inside the package.

Beware there is not too much welding.

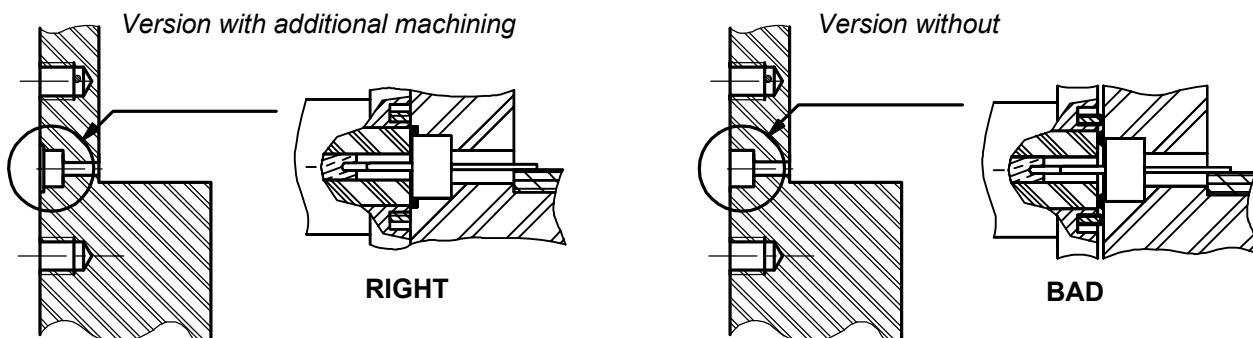
IMPORTANT: For maximum RF performances, the link track/pin must be as thin as possible. We advise therefore to follow the A dimension rigorously, by soldering accurately the pin or the socket directly on the trace.

CONNECTOR RECEPTACLE

Place the "EMI" screening gasket in the groove of the receptacle (if applicable).

Introduce gently the receptacle on the glass seal pin, then screw the flange (use the appropriated tool for screw-in receptacle).

GLASS SEAL MOUNTING



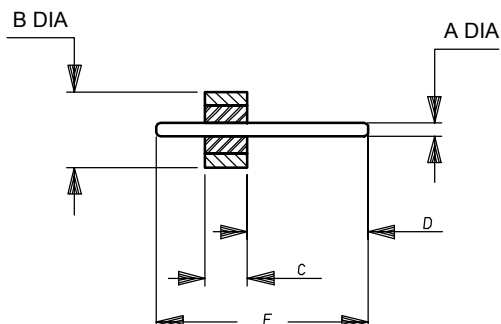
The RADIALl panel drilling on page 18 recommends an additional bore or chamfer machining on the outer edge of the glass seal housing. This additional machining allows to place a pre-form (solder stick Dia. 0.3 mm) before soldering.

After mounting, solder is flushing and allows the right positioning of the receptacle.

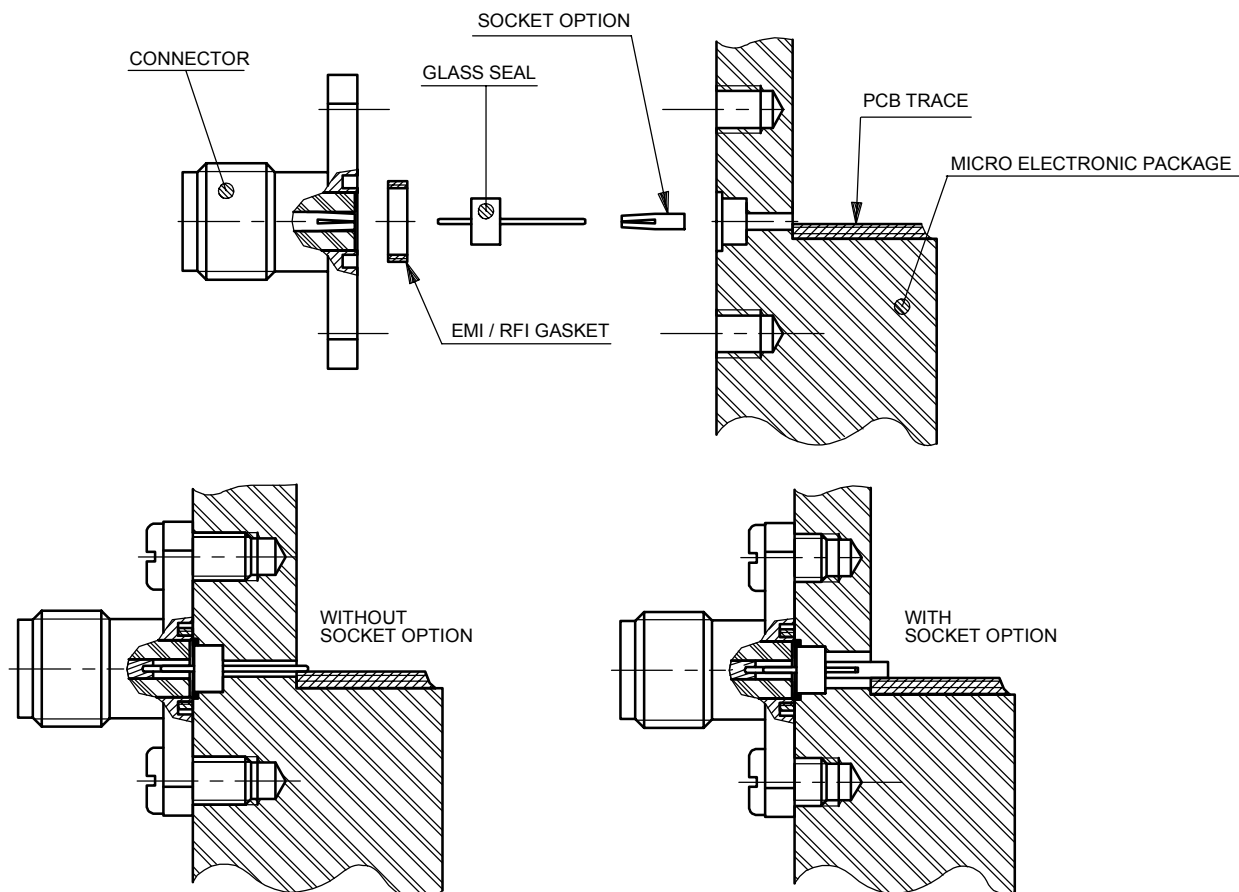
The EMI gasket efficiency is guaranteed.



GLASS SEAL FOR HERMETIC MICROSTRIP RECEPTACLES

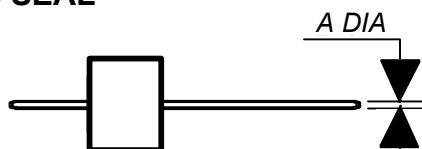


part number	R280 751 000	R280 755 000	R280 757 060	R280 757 080
A nom.	0.30	0.46	0.50	0.50
B +0.5 -0.25	2.51	2.85	4.01	4.01
C +0.5 -0.25	1.60	1.60	1.75	1.75
D ±0.127	4.57	4.57	1.78	5.80
E ±0.127	8.00	8.00	5.60	9.52





GLASS SEAL



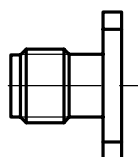
Glass seal dimensions : see previous page

R280 751 000 ↓ a: 0.30	R280 755 000 ↓ a: 0.46	R280 757 060 ↓ a: 0.50	R280 757 080 ↓ a: 0.50
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A : Gold plated receptacle type

B : Passivated receptacle type

JACK



4 hole
square flange
12.7 mm



4 hole
square flange
9.5 mm



2 hole
narrow flange
5.65 mm

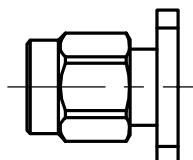


A	R125 411 000	R125 411 010	R125 411 010	R125 411 010
B	R125 411 001	R125 411 011	R125 411 011	R125 411 011

A	R125 941 000	R125 941 010
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A	R125 465 000	R125 465 010	R125 465 010	R125 465 010
B	R125 465 001	R125 465 011	R125 465 011	R125 465 011

PLUG



4 hole
square flange
12.7 mm



4 hole
square flange
9.5 mm



2 hole
narrow flange
5.65 mm

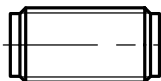


A	R125 431 010	R125 431 010	R125 431 010
B	R125 431 011	R125 431 011	R125 431 011

A	R125 431 000	R125 942 000	R125 942 010
B	R125 431 001		

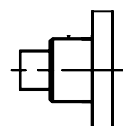
A	R125 481 000	R125 481 010	R125 481 010	R125 481 010
B	R125 481 001	R125 481 011	R125 481 011	R125 481 011

PANEL FEEDTHROUGH



A	R125 556 000	R125 556 010	R125 556 010	R125 556 010
B	R125 556 001	R125 556 011	R125 556 011	R125 556 011

DIRECT CABLE ATTACHMENT

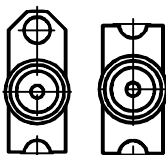


2 hole
narrow flange
5.65 mm



A	R280 331 000	R280 331 010	R280 331 010	R280 331 010
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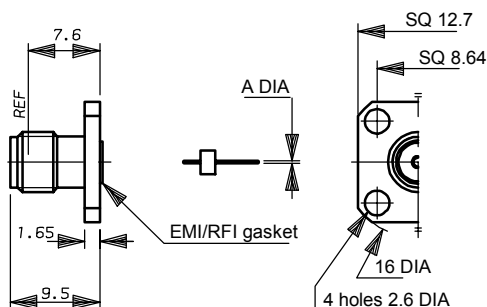
OTHER FLANGE SHAPE



Available upon request for all types



SQUARE FLANGE 12.7 mm MOUNT JACK RECEPTACLE

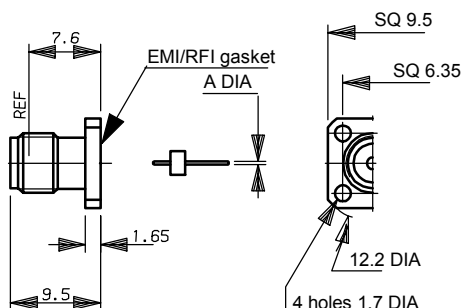
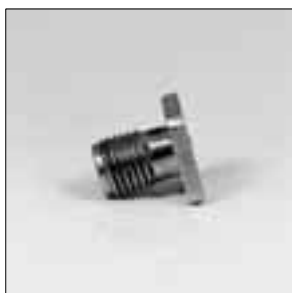


Panel drilling

R280 751 000	P01
R280 755 000	P02
R280 757 060	P06
R280 757 080	P06
R125 411 - - -	P09

glass seal only	R280 751 000	R280 755 000	R280 757 060	R280 757 080
connector only, gold plated	R125 411 000	R125 411 010		
connector only, passivated	R125 411 001	R125 411 011		
EMI/RFI gasket only	R280 510 000			

SQUARE FLANGE 9.5 mm MOUNT JACK RECEPTACLE

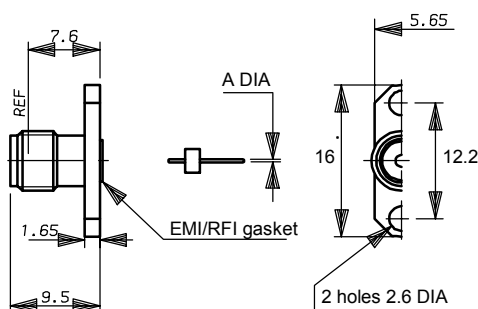


Panel drilling

R280 751 000	P01
R280 755 000	P02
R125 941 - - -	P10

glass seal only	R280 751 000	R280 755 000
connector only, gold plated	R125 941 000	R125 941 010
EMI/RFI gasket only	R280 510 000	

NARROW FLANGE MOUNT JACK RECEPTACLE



Panel drilling

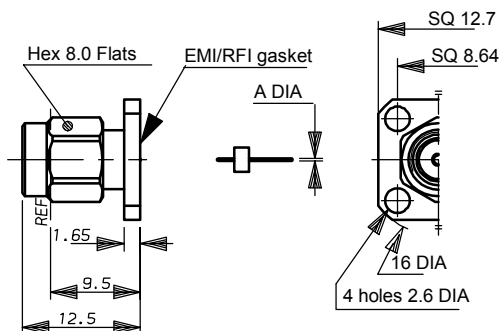
R280 751 000	P01
R280 755 000	P02
R280 757 060	P06
R280 757 080	P06
R125 465 - - -	P11

glass seal only	R280 751 000	R280 755 000	R280 757 060	R280 757 080
connector only, gold plated	R125 465 000	R125 465 010		
connector only, passivated	R125 465 001	R125 465 011		
EMI/RFI gasket only	R280 510 000			

Note : See on page 16 for optional sliding contact and replacement EMI/RFI gasket..



SQUARE FLANGE 12.7 mm MOUNT PLUG RECEPTACLE

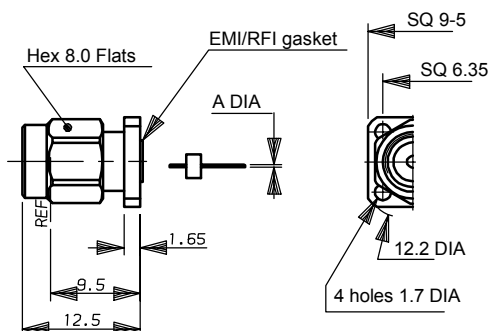


Panel drilling

R280 751 000	P01
R280 755 000	P02
R280 757 060	P06
R280 757 080	P06
R125 431 - - -	P09

glass seal only	R280 751 000	R280 755 000	R280 757 060	R280 757 080
connector only, gold plated	R125 431 000	R125 431 010		
connector only, passivated	R125 431 001	R125 431 011		
EMI/RFI gasket only	R280 510 000			

SQUARE FLANGE 9.5 mm MOUNT PLUG RECEPTACLE

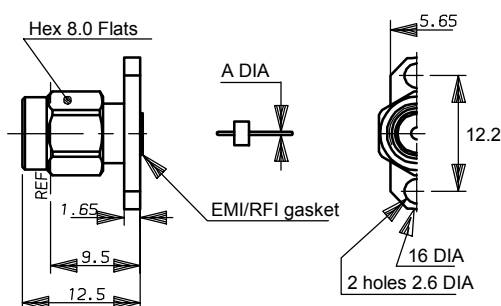
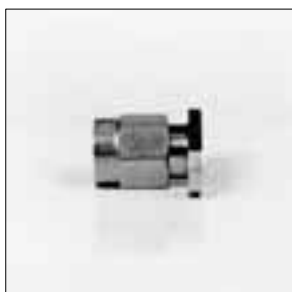


Panel drilling

R280 751 000	P01
R280 755 000	P02
R125 942 - - -	P10

glass seal only	R280 751 000	R280 755 000
connector only, gold plated	R125 942 000	R125 942 010
EMI/RFI gasket only	R280 510 000	

NARROW FLANGE MOUNT PLUG RECEPTACLE



Panel drilling

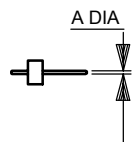
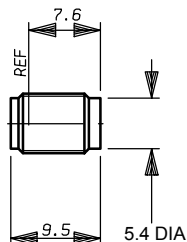
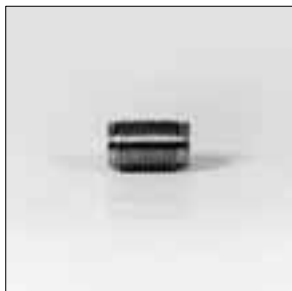
R280 751 000	P01
R280 755 000	P02
R280 757 060	P06
R280 757 080	P06
R125 481 - - -	P11

glass seal only	R280 751 000	R280 755 000	R280 757 060	R280 757 080
connector only, gold plated	R125 481 000	R125 481 010		
connector only, passivated	R125 481 001	R125 481 011		
EMI/RFI gasket only	R280 510 000			

Note : See on page 16 for optional sliding contact and replacement EMI/RFI gasket..



SCREW-ON TYPE, PANEL FEEDTHROUGH JACK RECEPTACLE

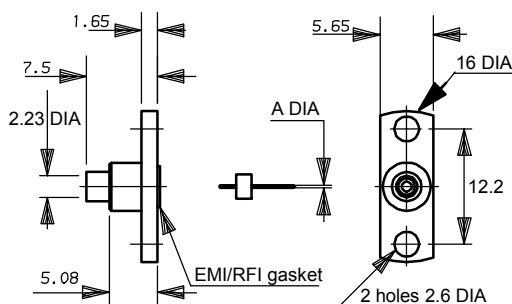


Panel drilling

R280 751 000	P03
R280 755 000	P04
R280 757 060	P07
R280 757 080	P07

glass seal only	R280 751 000	R280 755 000	R280 757 060	R280 757 080
connector only, gold plated	R125 556 000	R125 556 010		
connector only, passivated	R125 556 001	R125 556 011		
assembly tool	R282 341 010			

CABLE TYPE, NARROW FLANGE MOUNT .085" CABLE TERMINALS



Panel drilling

R280 751 000	P01
R280 755 000	P02
R280 757 060	P06
R280 757 080	P06
R280 331 - - -	P11

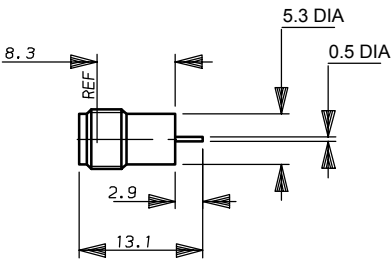
glass seal only	R280 751 000	R280 755 000	R280 757 060	R280 757 080
connector only, gold plated	R280 331 000	R280 331 010		
EMI/RFI gasket only	R280 510 000			
assembly instructions	M01			

Note : See on page 16 for optional sliding contact and replacement EMI/RFI gasket..



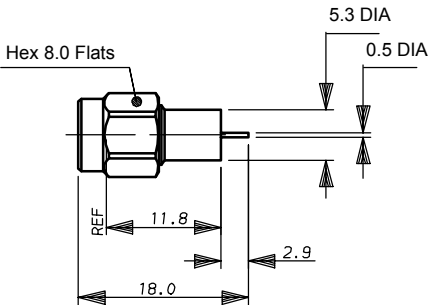
Panel feedthrough receptacles feature an internal hermetic glass seal. A ring of solder between the receptacle body and the package will bring the hermeticity level.

SOLDER TYPE, PANEL FEEDTHROUGH JACK RECEPTACLE



connector, gold plated	R125 630 040•
captive contact	YES
V.S.W.R.	1.05 + 0.02 F(GHz)
mounting instructions	M03

SOLDER TYPE, PANEL FEEDTHROUGH PLUG RECEPTACLE



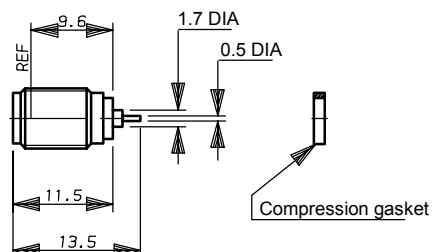
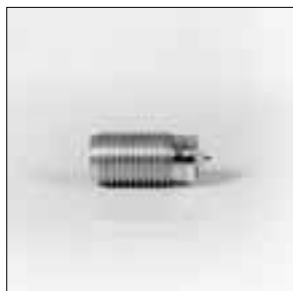
connector, gold plated	R125 633 040•
captive contact	YES
V.S.W.R.	1.05 + 0.02 F(GHz)
mounting instructions	M03

• Upon request.



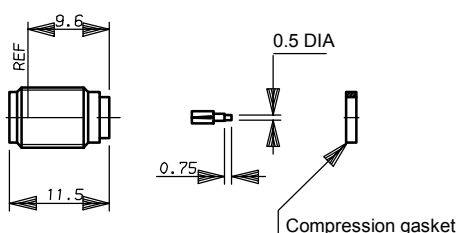
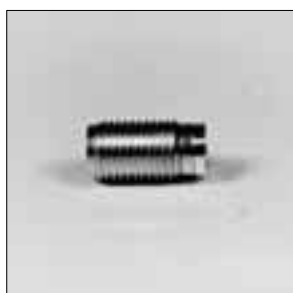
Screw-on receptacles with integrated glass seal, the compression gasket will ensure the hermeticity between the receptacle and the package.

SCREW-ON TYPE, PANEL FEEDTHROUGH JACK RECEPTACLE



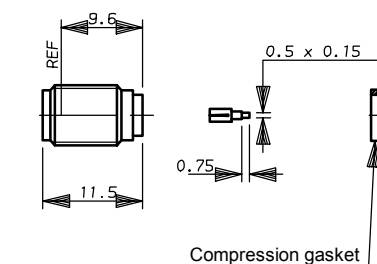
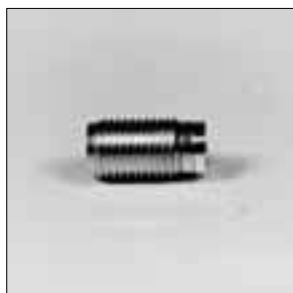
connector, gold plated	R125 609 000
connector, passivated	R125 609 001
panel drilling	P05
assembly instructions	M02

SCREW-ON TYPE, PANEL FEEDTHROUGH JACK RECEPTACLE WITH SLIDING CONTACT



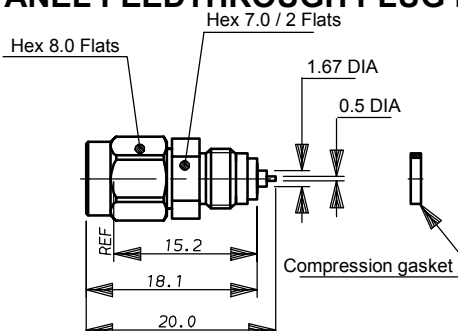
connector, gold plated	R125 609 010•
connector, passivated	R125 609 011
panel drilling	P05
assembly instructions	M02

SCREW-ON TYPE, PANEL FEEDTHROUGH JACK RECEPTACLE WITH SLIDING CONTACT



connector, gold plated	R125 609 070
connector, passivated	R125 609 071•
panel drilling	P05
assembly instructions	M02

SCREW-ON TYPE, PANEL FEEDTHROUGH PLUG RECEPTACLE



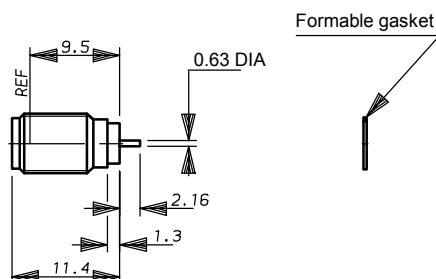
connector, gold plated	R125 639 000•
connector, passivated	R125 639 001
panel drilling	P05
assembly instructions	M02

• Upon request.



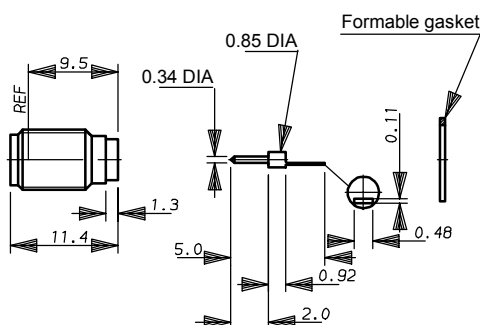
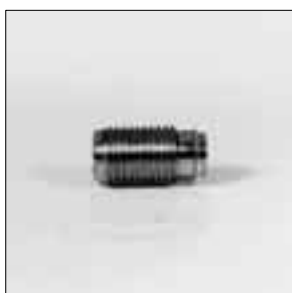
Screw-on receptacles without glass seal bring a lower hermeticity level (10^{-6} atm/cm³/sec). A gasket will ensure the hermeticity between the receptacle and the package.

SCREW-ON TYPE, PANEL FEEDTHROUGH JACK RECEPTACLE



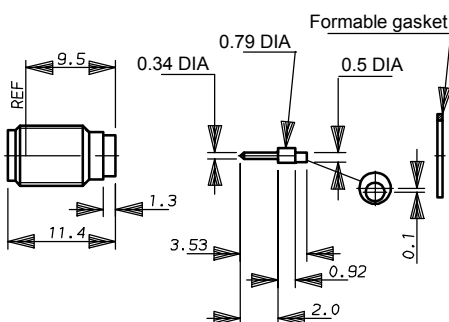
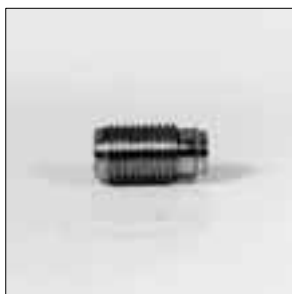
connector, passivated	R125 605 401
Panel drilling	P08
Assembly instructions	M02

SCREW-ON TYPE, PANEL FEEDTHROUGH JACK RECEPTACLE WITH SLIDING CONTACT (Flat pin)



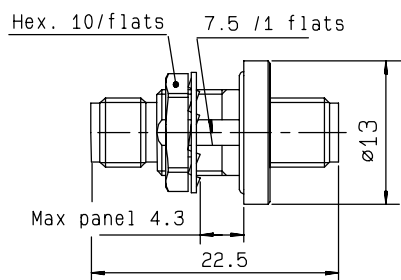
connector, passivated	R125 605 361
Panel drilling	P08
Assembly instructions	M04

SCREW-ON TYPE, PANEL FEEDTHROUGH JACK RECEPTACLE WITH SLIDING CONTACT (Circular pin)



connector, passivated	R125 605 371
panel drilling	P08
assembly instructions	M04

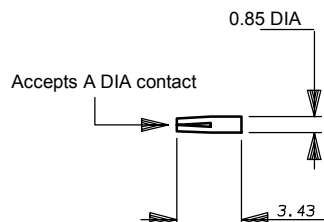
IN SERIES ADAPTERS PANEL SEALED BULKHEAD FEEDTHROUGH JACK TO JACK



connector, gold plated	R125 753 000
connector, passivated	R125 753 001
frequency range	DC - 18 GHz
V.S.W.R.	1.10 + 0.015 F(GHz)



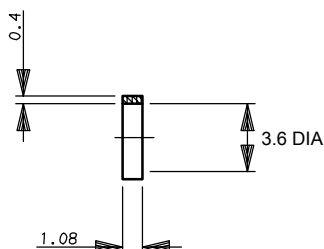
OPTIONAL SOCKET



part number	R280 469 000	R280 469 010
A DIA	0.30	0.46
Packaging	10 pieces	10 pieces

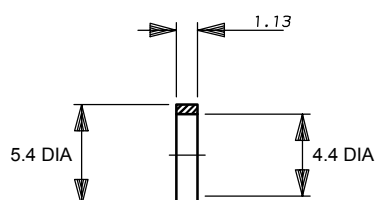
For use with glass seal.

EMI/RFI GASKET



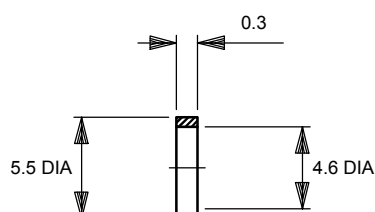
part number	R280 510 000
packaging	10 pieces

COMPRESSION GASKET

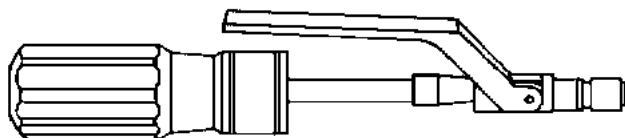


part number	R280 515 000
packaging	10 pieces

FORMABLE GASKET

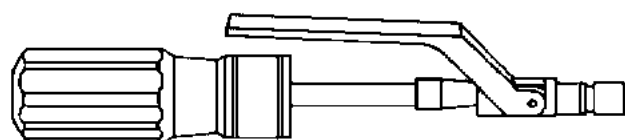


part number	R280 900 030
packaging	10 pieces



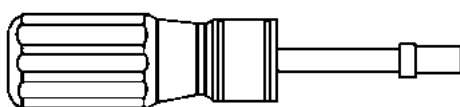
Coupling torque: **190 cm N**

part number	description
R282 341 010	Installation tool for jack receptacles
	R125 556 000
	R125 556 001
	R125 556 010
	R125 556 011



Coupling torque: **280 cm N**

part number	description
R282 341 000	Installation tool for Jack receptacles
	R125 605 361
	R125 605 371
	R125 605 401
	R125 609 000
	R125 609 001
	R125 609 010
	R125 609 011
	R125 609 070
	R125 609 071



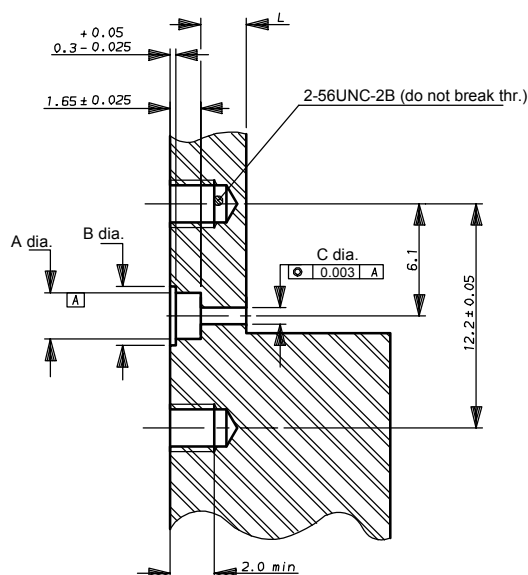
Coupling torque: **280 cm N**

part number	description
R282 342 010	Installation tool for plug receptacles
	R125 639 000
	R125 639 001



HERMETIC SEPARATE GLASS SEAL RECEPTACLES

P 01/02

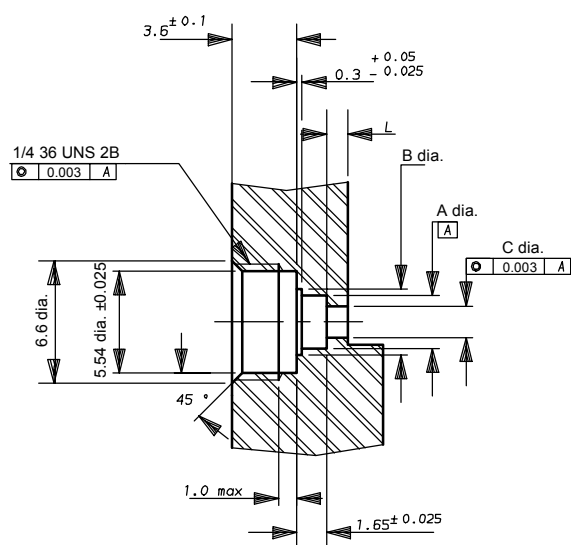


	P01	P02
A dia.	2.6±0.025	2.92±0.025
B dia.	3.23±0.025	3.55±0.025
C dia. (1)	2±0.02	
(2)	0.7±0.02	1.08±0.02
L dia. (1)	2.5±0.1	
(2)	from 1 mm to 4 mm	

(1) Using of the removable contact.

(2) The pin is directly welded on the trace.

P 03/04



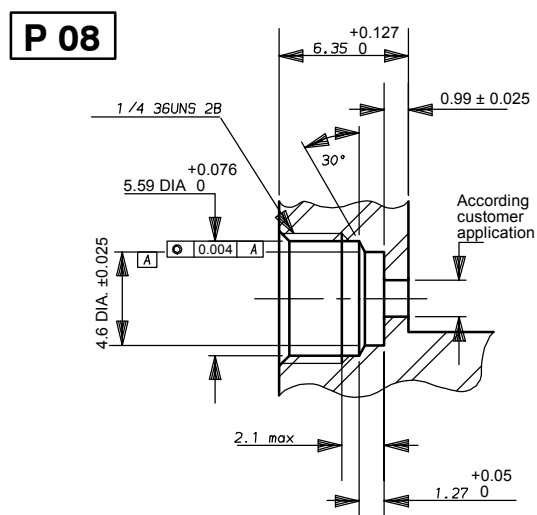
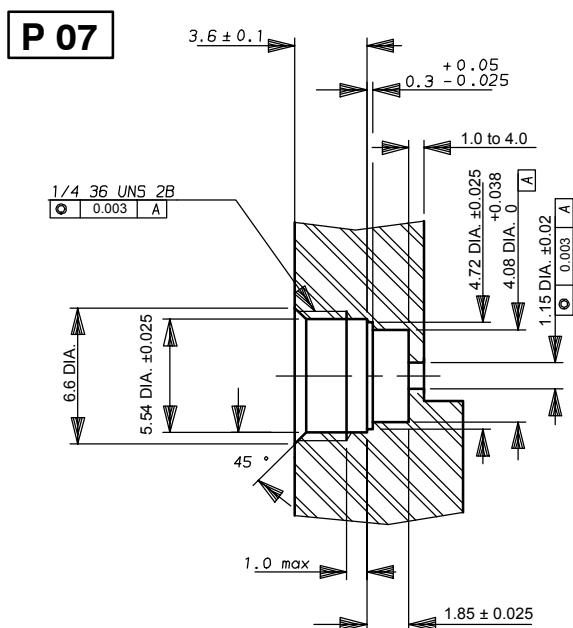
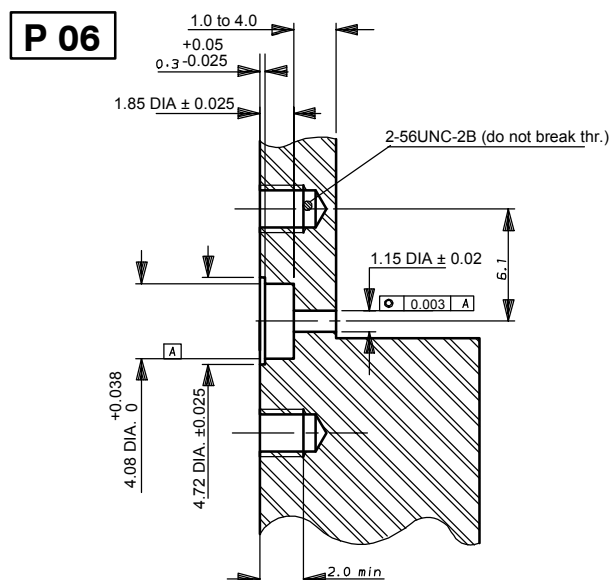
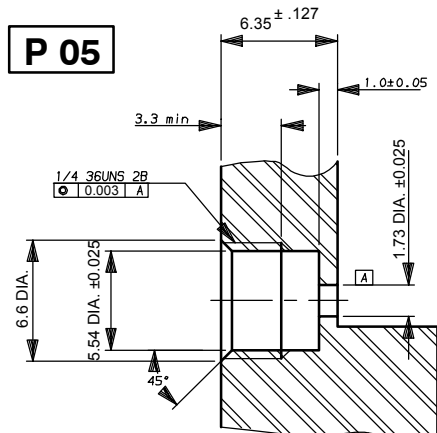
	P03	P04
A dia.	2.6±0.025	2.92±0.025
B dia.	3.23±0.025	3.55±0.025
C dia. (1)	2±0.02	
(2)	0.7±0.02	1.08±0.02
L dia. (1)	2.5±0.1	
(2)	from 1 mm to 4 mm	

(1) Using of the removable contact.

(2) The pin is directly welded on the trace.

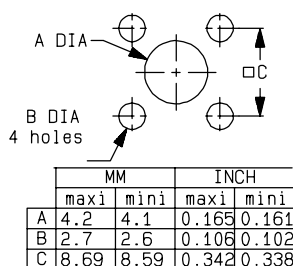


HERMETIC SEPARATE GLASS SEAL RECEPTACLES

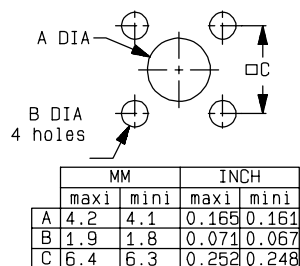


PANEL CUT OUT

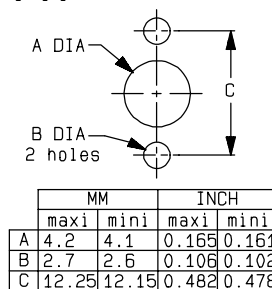
P09



P10



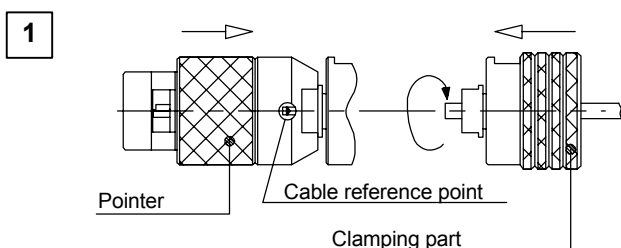
P11



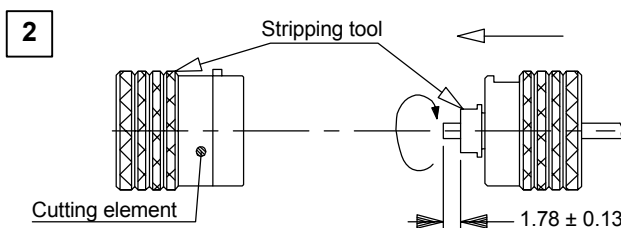


M 01

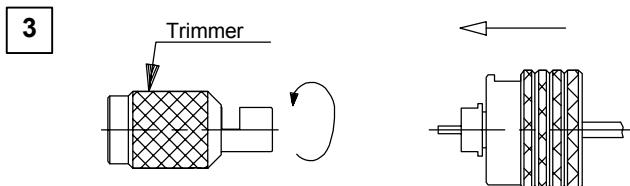
connectors	pointer	stripping tool	assembly jig
R280 331 000 R280 331 010	R282 062 000	R282 051 000	R282 740 020



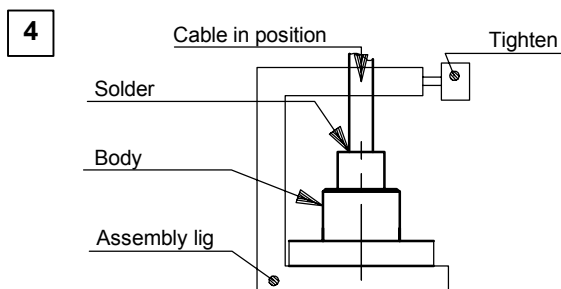
- 1-1** Present the hollow part of the pointer in front of the clamping part.
- 1-2** Push the cable on its stop, while holding the clamping part pushed on the hollow part of the pointer.
- 1-3** Turn the clamping part until the release of the pointer.



- 2-1** Present the cutting element in front of the clamping part.
- 2-2** Push and turn both elements, back part opposite to the front part.
- 2-3** Once they reach the stop: pull without revolving.



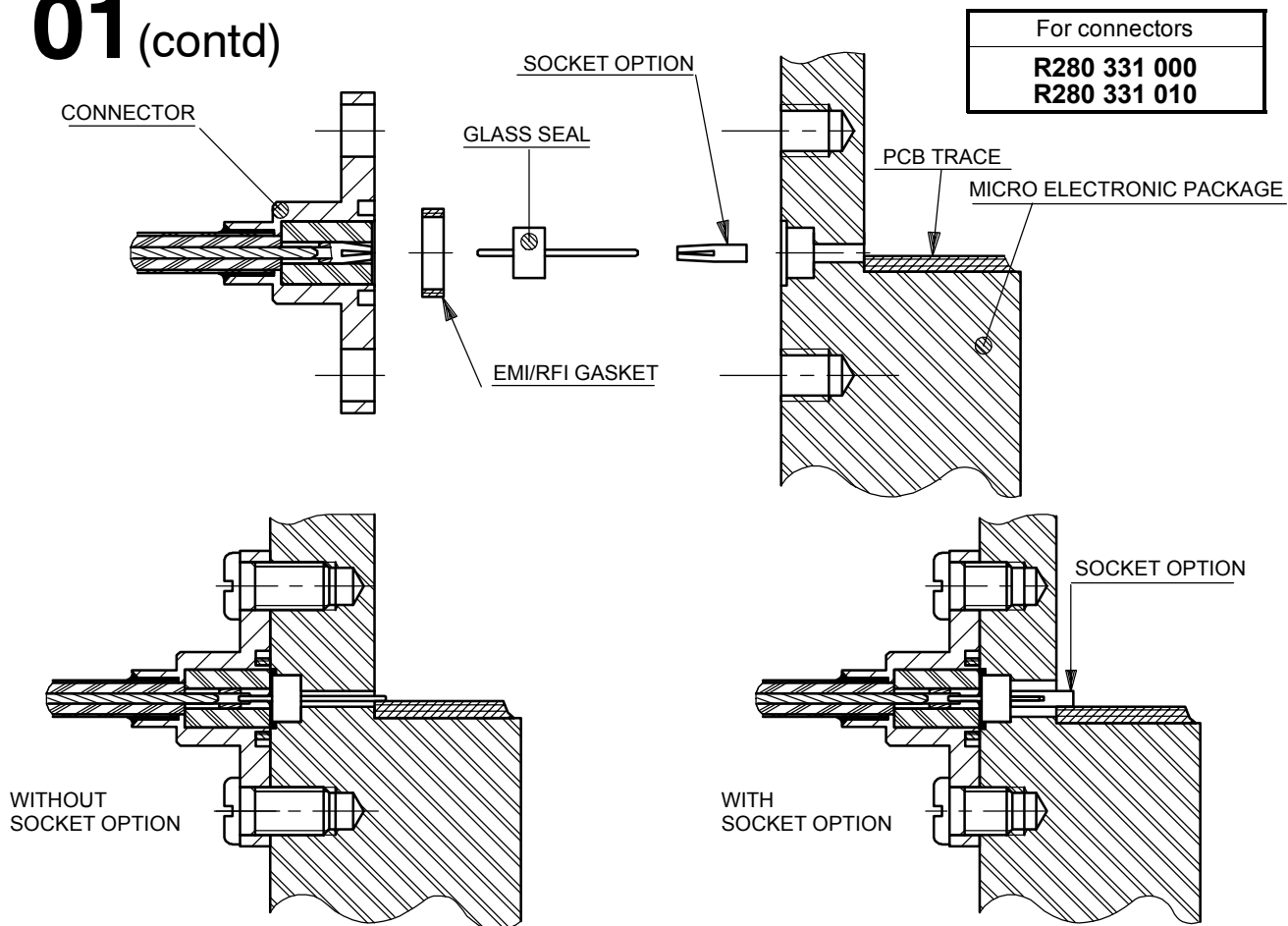
- 3-1** Present the trimmer opposite the cable holder, push and turn both elements with respect to each other until fully home.



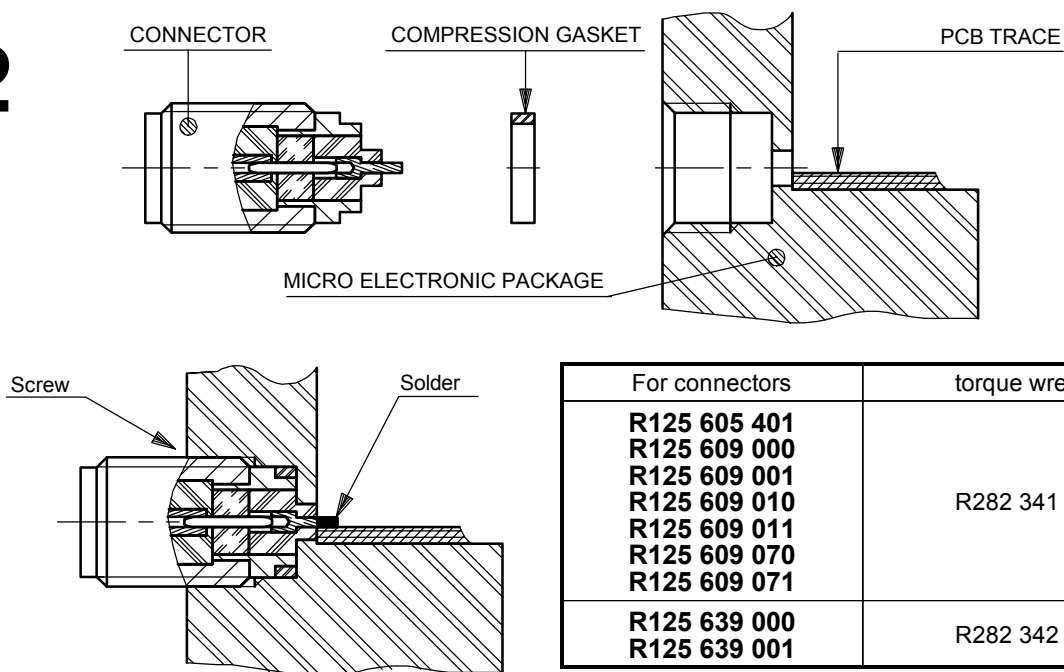
- 4-1** Clean the cable. Put the connector on the assembly jig.
- 4-2** Put 1 ring of solder (12.7 mm dia.) around the cable. Introduce the cable into the connector body until contact with the shoulder. Tight the assembly jig.
- 4-3** Solder body onto the cable.
- 4-4** Let the assembly cool down before removing it from the jig.



M 01 (contd)



M 02



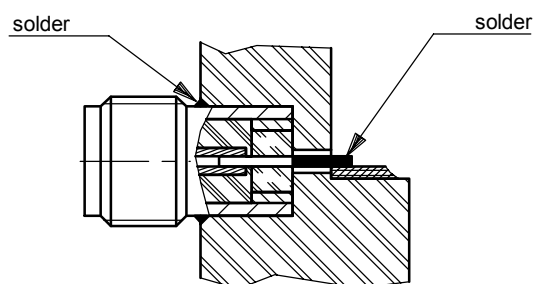
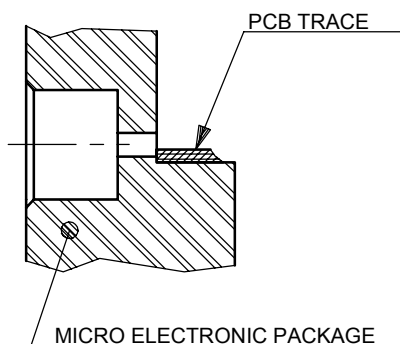
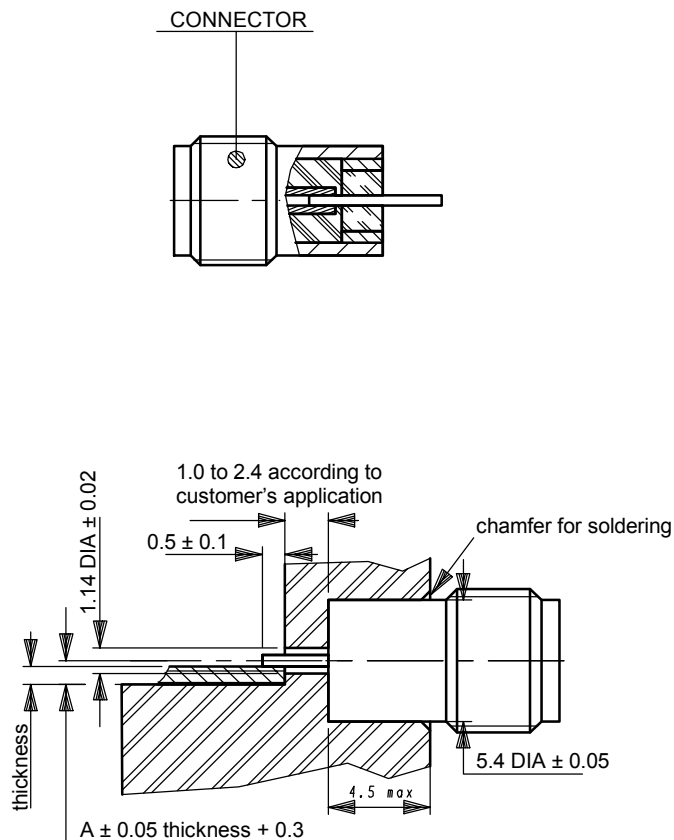
For connectors	torque wrench
R125 605 401 R125 609 000 R125 609 001 R125 609 010 R125 609 011 R125 609 070 R125 609 071	R282 341 000
R125 639 000 R125 639 001	R282 342 010



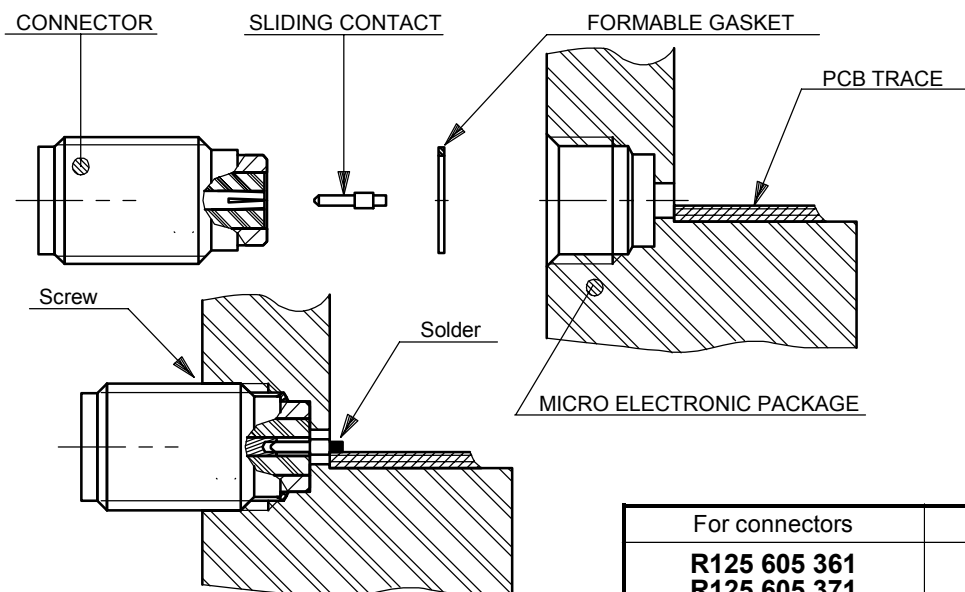
M 03

For connectors

R125 630 040
R125 633 040



M 04



For connectors

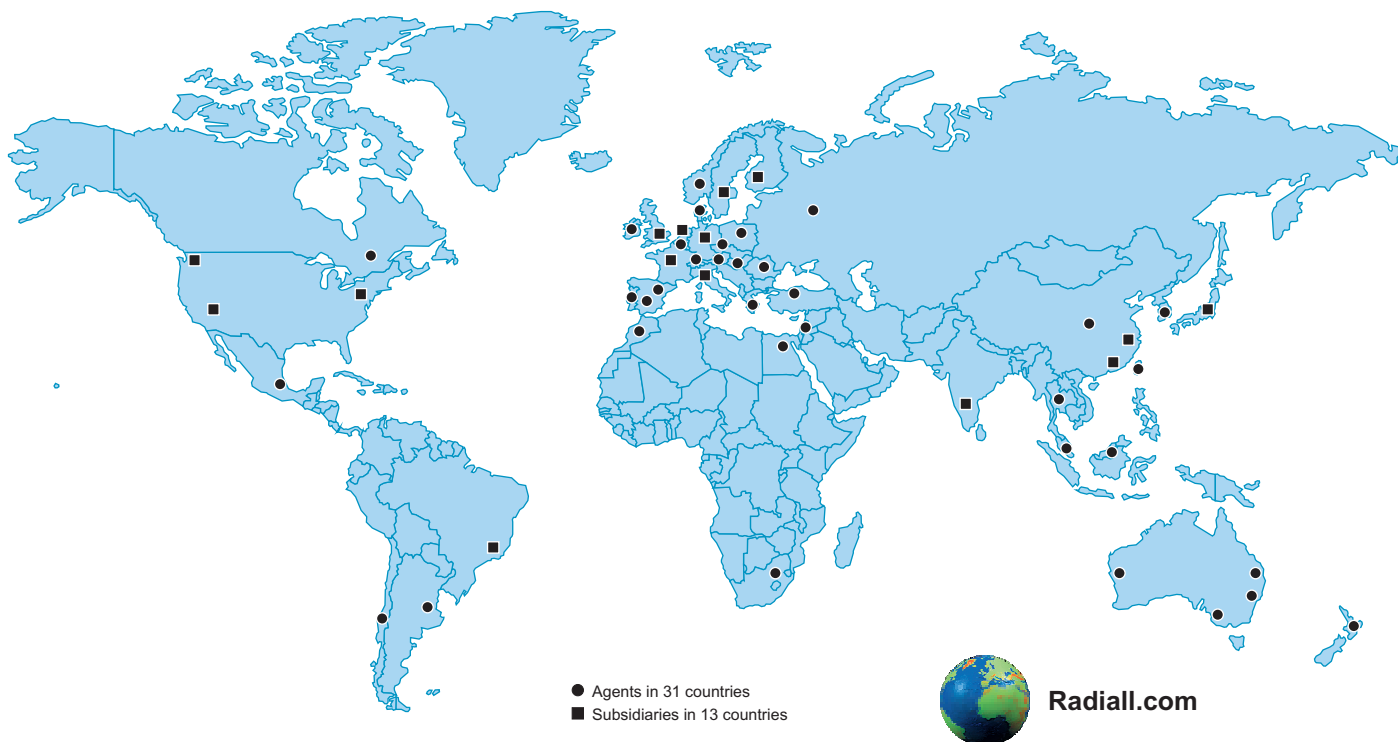
R125 605 361
R125 605 371

torque wrench

R282 341 000



Part numbers	Description	Page
R125 411 000	Square flange 12.7 mm mount jack receptacle (gold plated)	10
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R125 411 010	Square flange 12.7 mm mount jack receptacle (gold plated)	10
R125 411 011	Square flange 12.7 mm mount jack receptacle (passivated)	10
R125 431 000	Square flange 12.7 mm mount plug receptacle (gold plated)	11
R125 431 001	Square flange 12.7 mm mount plug receptacle (passivated)	11
R125 431 010	Square flange 12.7 mm mount plug receptacle (gold plated)	11
R125 431 011	Square flange 12.7 mm mount plug receptacle (passivated)	11
R125 465 000	Narrow flange mount jack receptacle (gold plated)	10
R125 465 001	Narrow flange mount jack receptacle (passivated)	10
R125 465 010	Narrow flange mount jack receptacle (gold plated)	10
R125 465 011	Narrow flange mount jack receptacle (passivated)	10
R125 481 000	Narrow flange mount plug receptacle (gold plated)	11
R125 481 001	Narrow flange mount plug receptacle (passivated)	11
R125 481 010	Narrow flange mount plug receptacle (gold plated)	11
R125 481 011	Narrow flange mount plug receptacle (passivated)	11
R125 556 000	Panel feedthrough jack receptacle (gold plated)	12
R125 556 001	Panel feedthrough jack receptacle (passivated)	12
R125 556 010	Panel feedthrough jack receptacle (gold plated)	12
R125 556 011	Panel feedthrough jack receptacle (passivated)	12
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R125 609 010	Environmentally durable panel feedthrough jack receptacle sliding contact (gold plated)	14
R125 609 011	Environmentally durable panel feedthrough jack receptacle sliding contact (passivated)	14
R125 609 070	Environmentally durable panel feedthrough jack receptacle sliding contact (gold plated)	14
R125 609 071	Environmentally durable panel feedthrough jack receptacle sliding contact (passivated)	14
R125 630 040	Panel feedthrough jack receptacle (gold plated)	13
R125 633 040	Panel feedthrough plug receptacle (gold plated)	13
R125 639 000	Environmentally durable panel feedthrough plug receptacle (gold plated)	14
R125 639 001	Environmentally durable panel feedthrough plug receptacle (passivated)	14
R125 753 000	In series adapters panel sealed bulkhead feedthrough jack to jack (gold plated)	15
R125 753 001	In series adapters panel sealed bulkhead feedthrough jack to jack (passivated)	15
R125 941 000	Square flange 9.5 mm mount jack receptacle (gold plated)	10
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R282 342 010	Tooling for hermetic receptacles	17



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