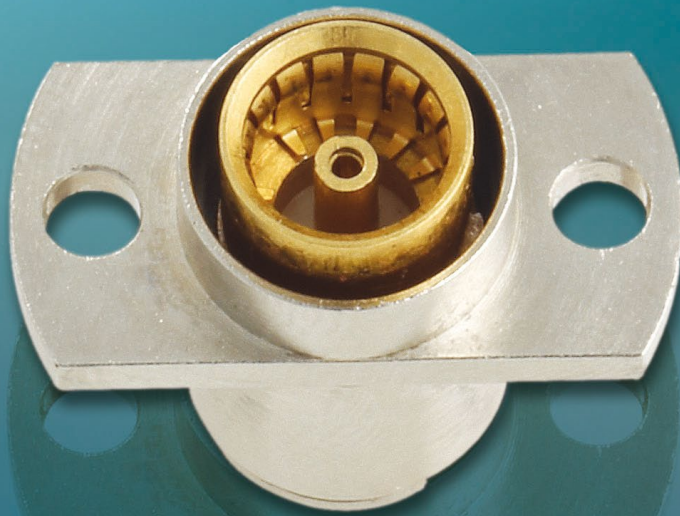


SECTION 7



SMA / SMA-COM / BMA

R125 / R124 / R128

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SMA

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SMA-COM

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Introduction

	BMA
50Ω	DC - 22 GHz

GENERAL

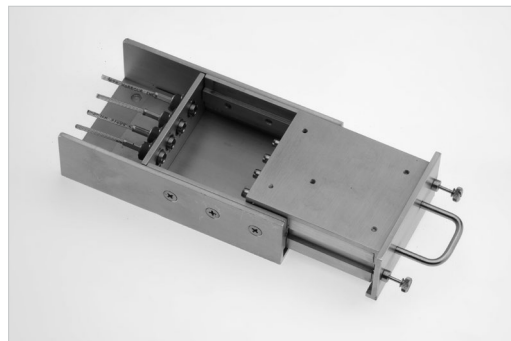
- Blind mate connector
- Slide-on coupling
- High frequency
- Float mount design allows large axial and radial misalignment

APPLICABLE STANDARDS

- MIL-STD-348 Fig. 321
- CEI 1169-33
- Compatible with OSP series

APPLICATIONS

- Airborne and ground radars
- Active electronically scanned array antennas
- Rack and panel telecommunication equipments
- Military microwave modules



Radiall's BMA series has been designed for applications where reliability, durability and performances at high frequency are essential. BMA is a blind mate connector widely used to interconnect microwave modules with multiple coaxial ports. Float mount connectors are recommended for multiple interconnects. Contact Radiall for mounting tolerances.

WIDE RANGE

The BMA product range consists of cable connectors for flexible cables, semi-rigid cables and SHF cables, floating bulkhead or flange mount, PCB receptacles, press mount receptacles, screw-on receptacles, hermetic receptacles, coaxial contacts for rectangular or circular multipin connectors and adapters.

NEW SPRING FINGERS OUTER CONTACT

In 2007, a new outer contact was designed and introduced on all BMA female connectors. The new spring fingers outer contact provides improved performances and stability at high frequency up to 22 GHz. Old BMA female part numbers are obsolete and have been replaced with new part numbers which are listed in this catalog.

Characteristics

Test / Characteristics	Values / Remarks
------------------------	------------------

ELECTRICAL CHARACTERISTICS

Impedance	50Ω	
Frequency range	DC - 22 GHz	
V.S.W.R.	.085"/ RG405 semi-rigid cable: 1.05 + 0.01 F (GHz)	
Insertion loss (typ.) dB	0.03 √ F (GHz)	
RF leakage (min.) dB	-90 + F (GHz) for gold and BBR connector body -80 + F (GHz) for passivated connector body	
Insulation resistance	≥ 5000 MΩ	
Contact resistance	Center contact : 5 mΩ max. / Outer contact : 2.5 mΩ max.	
Voltage in V. RMS • At sea level • At 70000 ft	Dielectric withstanding voltage ≥ 1000 V. 200 V.	Working voltage ≤ 335 V. 85 V.

MECHANICAL CHARACTERISTICS

Durability	>1000 cycles	
Force to engage	13.6 N [3 lbf] max.	
Force to disengage	0.56 N [0.13 lbf] min.	
Cable retention force	.085"/ RG405 cable	.141"/ RG402 cable
	> 136 N [30 lbf]	> 272 N [61 lbf]
Center contact retention force	27 N [6 lbf] min.	
Misalignment • Radial misalignment • Axial misalignment	Fixed mount ± 0.1mm (.004 in) 0.38mm (.015 in) max.	Float mount ± 0.51mm (.020 in) 1.52mm (.060 in) min.

ENVIRONMENTAL CHARACTERISTICS

Temperature range • Standard models • Semi-rigid cables	-65°C / + 165°C -65°C / +105°C
Thermal cycling	MIL-STD-202, Method 107, Condition B, -65°C / +125°C
Vibration	MIL-STD-202, Method 204, Condition D, 20 g
Shock	MIL-STD-202, Method 213, Condition A, 50 g
Bumps	CECC 22000, Paragraph 4.6.2, 4000 bumps per axis
Moisture resistance	MIL-STD-202, Method 106
Corrosion	MIL-STD-202, Method 101, Condition A, 96H
Degree of protection	IP54 (male connector with O-ring)

MATERIALS AND PLATING

	Material	Plating
Body/Nut	Stainless steel (standard BMA) Brass (commercial BMA)	Gold or Passivated BBR
Center contacts	Brass (male) Beryllium copper (female)	Gold over Nickel or NPGR
Outer contact	Beryllium copper	NPGR
Gaskets	Silicon rubber	
Insulators	PTFE	

Plugs and contacts

STRAIGHT PLUGS, SOLDER TYPE FOR SEMI-RIGID CABLES

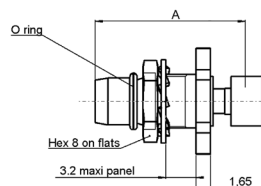


Fig. 1

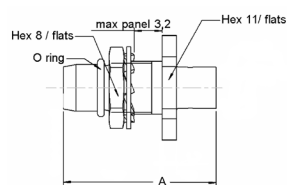


Fig. 2

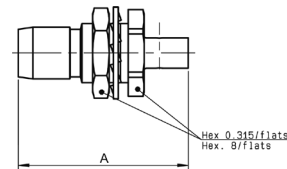


Fig. 3

Cable group	Cable group dia.	Part number	Fig.	Dimension A (mm)	Panel drilling	Body	Finish	Captive center contact	Note
RG405	.085"	R128 052 901	1	17	P01	Stainless steel	Passivated	yes (epoxy)	Crimp type, easy installation
		R128 052 000	2	Gold					
		R128 052 827	3	17.6		Brass	BBR	yes [4 indents]	No O-ring
RG402	.141"	R128 055 000	2			Stainless steel	Gold	yes (epoxy)	
		R128 055 827	3						

STRAIGHT BULKHEAD PLUGS CRIMP TYPE FOR FLEXIBLE CABLE

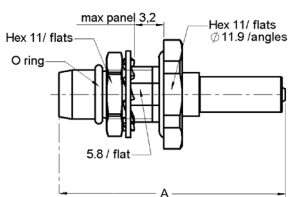


Fig. 1

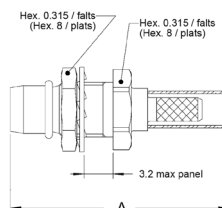


Fig. 2

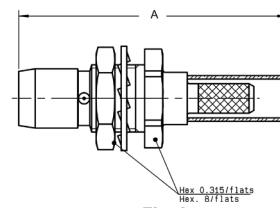


Fig. 3

Cable group	Cable group dia.	Part number	Fig.	Dimension A (mm)	Panel drilling	Body & finish	Captive center contact	Note
RG174 / RG316	2.6/50/S	R128 081 001	1	24.6	P02	Stainless steel passivated	yes (barb)	Waterproof
		R128 083 001	2	24.2	P01		yes (epoxy)	
		R128 083 827	3			Brass BBR	yes (4 indents)	No O-ring
RD316	2.6/50/D	R128 084 827						
RG142 / RG223 / RG400	5/50D	R128 088 827						

STRAIGHT CONTACTS SIZE 8 FOR MIL-STD-38999 CONNECTORS SOLDER TYPE

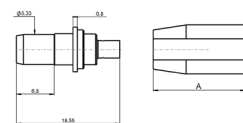


Fig. 1

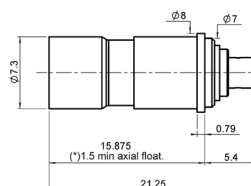


Fig. 2

Cable group	Cable group dia.	Part number	Body & finish	Fig.	Captive center contact	Gender
RG405	.085"	R128 053 000	Stainless steel Gold plated	1	yes (epoxy)	Pin
		R128 294 710		2		Socket
RG402	.141"	R128 056 000		1		Pin
		R128 296 710		2		Socket

Jacks

STRAIGHT FLOATING JACKS SOLDER TYPE FOR SEMI-RIGID CABLE

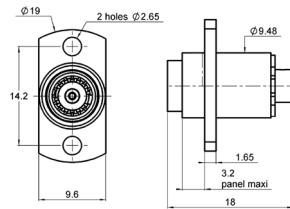
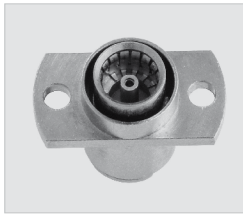


Fig. 1

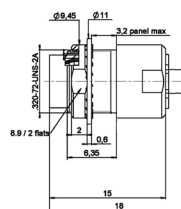


Fig. 2

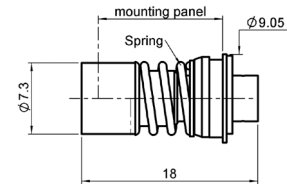


Fig. 3

Cable group	Cable group dia.	Part number	Fig.	Panel drilling	Body & finish	Captive center contact	Panel mount
RG405	.085"	R128 292 700	1	P03	Stainless steel gold plated	yes (epoxy)	2-hole flange
		R128 292 727			Brass BBR	yes (4 indents)	Bulkhead
		R128 293 702	2	P18	Stainless steel gold plated	yes (epoxy)	Snap-in
		R128 294 700			Brass BBR	yes (4 indents)	2-hole flange
RG402	.141"	R128 296 700	1	P03	Stainless steel gold plated	yes (epoxy)	Snap-in
		R128 295 700			Brass BBR	yes (4 indents)	2-hole flange
		R128 295 727			Stainless steel gold plated	yes (epoxy)	2-hole flange

STRAIGHT FLOATING JACKS CRIMP TYPE FOR FLEXIBLE CABLE

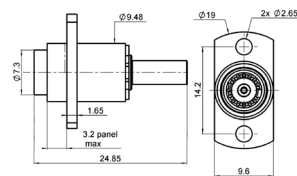


Fig. 1

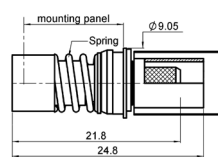


Fig. 2

Cable group	Cable group dia.	Part number	Fig.	Panel drilling	Body & finish	Captive center contact	Panel mount
RG174 / RG316	2.6/50S	R128 263 707	1	P03	Brass BBR	yes (4 indents)	2-hole flange
RD316	2.6/50D	R128 264 707			Stainless steel passivated	yes (epoxy)	
RG142 / RG223 / RG400	5/50/D	R128 268 717			Brass BBR	yes (4 indents)	Snap-in
RG174 / RG316	2.6/50/S	R128 263 711			Stainless steel passivated	yes (epoxy)	
RG142 / RG223 / RG400	5/50/D	R128 268 701	2	P04	Brass BBR	yes (4 indents)	2-hole flange
RG174 / RG316	2.6/50/S	R128 233 701			Stainless steel passivated	yes (epoxy)	
RG142 / RG223 / RG400	5/50/D	R128 238 701			Brass BBR	yes (4 indents)	Snap-in

Jacks and receptacles

RIGHT ANGLE FLOATING JACKS FOR SEMI-RIGID AND FLEXIBLE CABLE

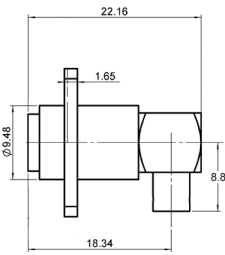


Fig. 1

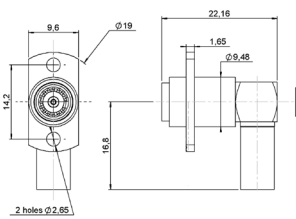


Fig. 2

Cable group	Cable group dia.	Part number	Fig.	Panel drilling	Body & finish	Captive center contact	Note
RG402	.141"	R128 359 707	1	P03	Brass BBR	yes (4 indents)	Solder type
RG405	.085"	R128 360 701			Stainless steel passivated	yes (epoxy)	
		R128 360 717			Brass BBR	yes (4 indents)	Crimp type
RG142 / RG223 / RG400	5/50/D	R128 368 707	2				

STRAIGHT SMT MALE RECEPTACLES

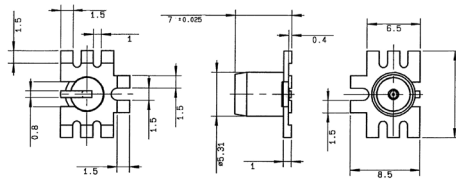


Fig. 1

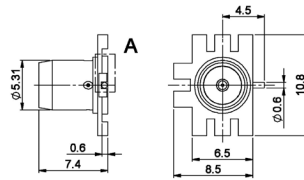


Fig. 2

Part number	Fig.	Body & finish	Captive center contact	Note
R128 424 848	1	Brass, tin plated	Yes (4 indents)	Tape & Reel 250pcs
R128 424 860	2	Brass NPGR		

PCB MALE RECEPTACLES

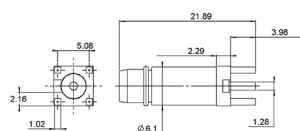


Fig. 1

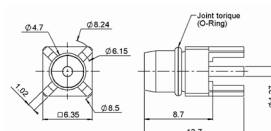


Fig. 2

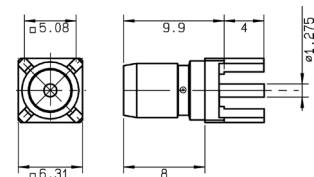


Fig. 3

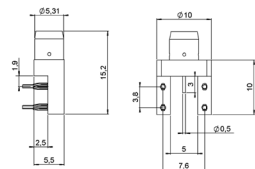


Fig. 4

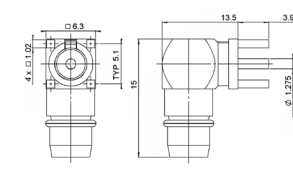


Fig. 5

Part number	Fig.	Panel drilling	Body & finish	Captive center contact	Note
R128 425 110	1	P09	Stainless steel gold plated	yes (barb)	No O-ring
R128 425 300	2			yes (epoxy)	
R128 425 820	3	P07	Brass gold plated	yes (4 indents)	Press-fit edge-card type
R128 405 161	4				No O-ring
R128 665 820	5	P07	Stainless steel gold plated	yes	No O-ring
R128 665 100		P09			

Receptacles

PCB FEMALE RECEPTACLES

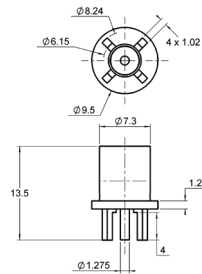


Fig. 1

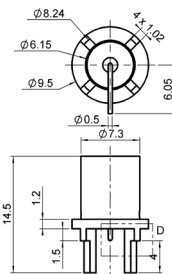


Fig. 2

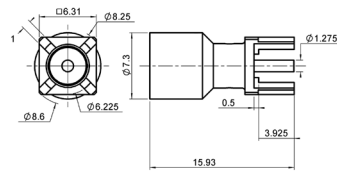


Fig. 3

Part number	Fig.	Panel drilling	Body & finish	Captive center contact
R128 426 700	3	P09	Brass gold plated	yes (4 indents)
R128 426 710	1	P10	Stainless steel gold plated	yes (epoxy)
R128 427 700	2	P11		

NARROW AND SQUARE FLANGE EXTENDED DIELECTRIC MALE RECEPTACLES

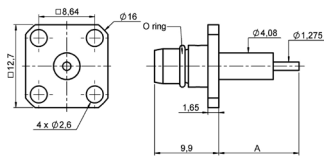


Fig. 1

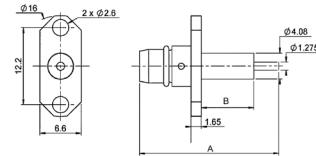


Fig. 2

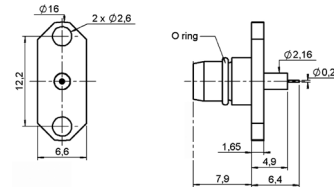


Fig. 3

Part number	Fig.	Dimension		Panel drilling	Body & finish	Captive center contact	Panel mount	Note
		A (mm)	B (mm)					
R128 444 201	1	12.4	8.4	P06	Stainless steel passivated	yes (epoxy)	4 hole flange	No O-ring
R128 444 307		10.7	5.6		Brass BBR	yes (4 indents)		
R128 474 201	2	22.3	8.4	P05	Stainless steel passivated	yes (epoxy)	2 hole flange	
R128 474 211		17.4	5		Brass BBR	yes (4 indents)		
R128 474 847		16.4						
R128 474 857		22.3	8.4					
R128 484 001	3			P13	Stainless steel passivated	yes (epoxy)		

NARROW AND SQUARE FLANGE EXTENDED DIELECTRIC FEMALE RECEPTACLES

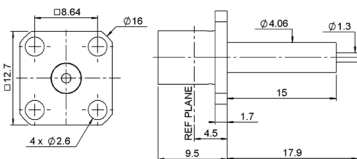


Fig. 1

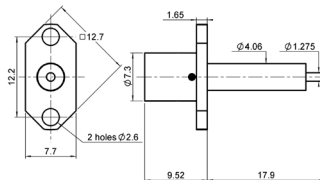
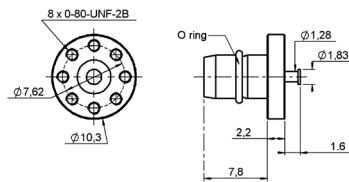


Fig. 2

Part number	Fig.	Panel drilling	Body & finish	Captive center contact	Note
R128 414 701	1	P06	Stainless steel passivated	yes (epoxy)	Square flange
R128 464 701	2	P12			2 hole flange

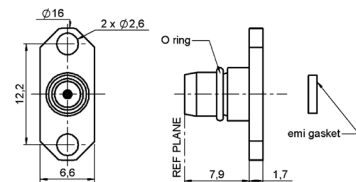
Receptacles

SPECIAL FLANGE MALE RECEPTACLE



Part number	Panel drilling	Body & finish	Captive center contact	Note
R128 545 011	P16	Stainless steel passivated	no	Turret contact type

NARROW FLANGE REPLACEABLE MALE RECEPTACLES



Part number	Panel drilling	Body & finish	Captive center contact	Accept pin diameter	Note
R128 490 021	P13	Stainless steel passivated	yes (epoxy)	0.93 mm	No EMI gasket
R128 481 001				0.3 mm	EMI gasket
R128 481 011				0.5 mm	

SCREW-ON AND PRESS-FIT MALE RECEPTACLES

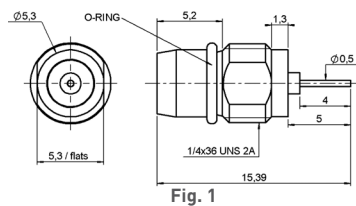


Fig. 1

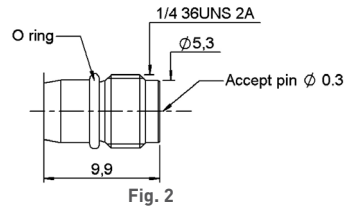


Fig. 2

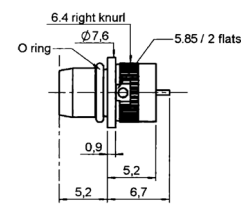


Fig. 3

Part number	Fig.	Panel drilling	Body & finish	Captive center contact	Panel mount	Note
R128 555 101	1	P14	Stainless steel passivated	yes (epoxy)	Screw-on	Cylindrical
R128 556 001	2	P15			Press-fit	Socket
R128 595 001	3	P08			Press-fit	Cylindrical

SCREW-ON HERMETIC RECEPTACLES WITH EMI GASKET (with integrated glass bead)

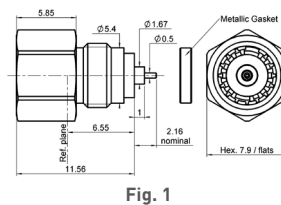


Fig. 1

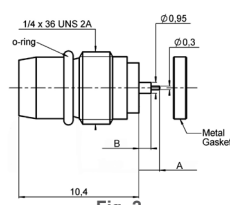


Fig. 2

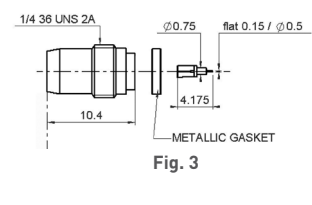
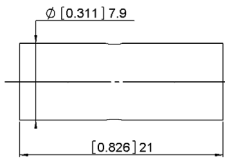


Fig. 3

Part number	Fig.	Dimension		Body & finish	Captive center contact	Note
		A (mm)	B (mm)			
R128 609 701	1			Stainless steel passivated	yes	Female
R128 639 000	2	1.8	1			Stainless steel gold plated
R128 639 001		3				
R128 639 020		1.8	1.05			
R128 639 100	3			Stainless steel passivated		Male, with auxiliary contact, no O-ring
R128 639 071						

Receptacles

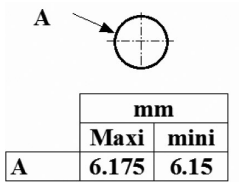
FEMALE-FEMALE STRAIGHT ADAPTER



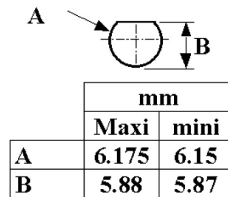
Part number	Body & finish	Captive center contact
R128 705 711	Stainless steel passivated	yes (epoxy)

Panel drilling

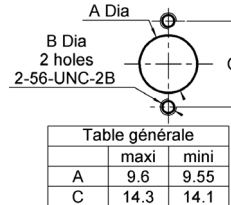
P01



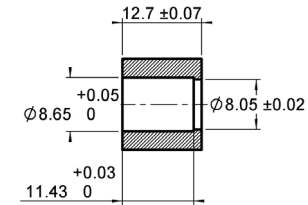
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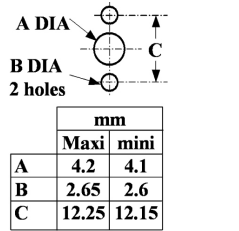
P03



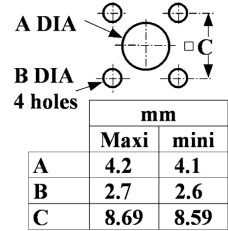
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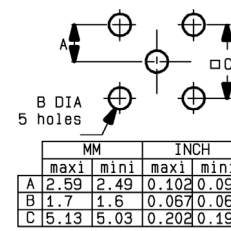
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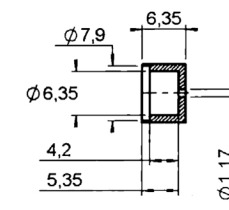
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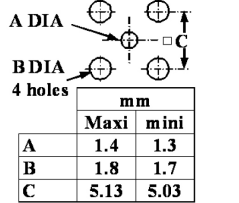
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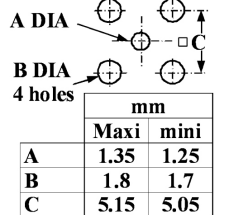
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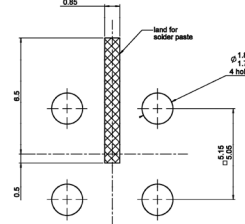
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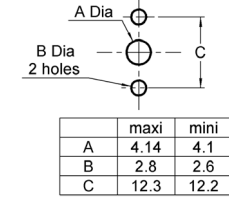
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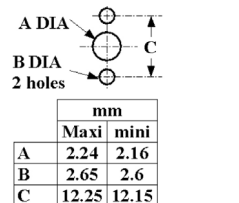
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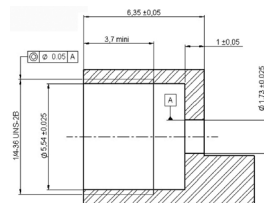
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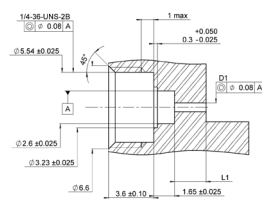
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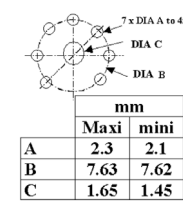
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P15



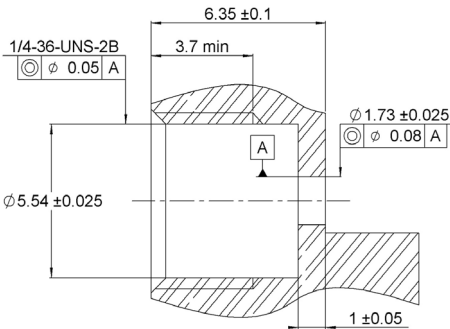
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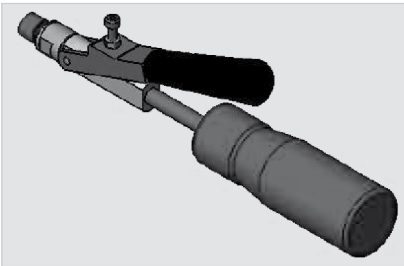
Panel drilling

HERMETIC GLASS BEAD RECEPTACLES

P17



INSTALLATION TOOLS FOR HERMETIC RECEPTACLES



Part number	Body & finish	Captive center contact
R282 340 000	280 N.cm	Tool for male receptacles R128 639 xxx

Introduction

Radiall stainless steel SMA connectors have been designed for applications where reliability, durability, robustness and high frequency are critical.

• WIDE RANGE

The stainless steel SMA range offers cable connectors for both flexible or semi-rigid cables, panel and PCB mount receptacles, press mount, microstrip, universal, through hole pins and end launch connectors. In series adapters and between series adapters including PUSH-ON interface are also available.

All Radiall stainless steel SMA connectors can be mated with Radiall commercial (brass) SMA connectors.

• CONVENIENT 3-PIECE DESIGN ON MOST CONNECTORS FOR FLEXIBLE CABLES

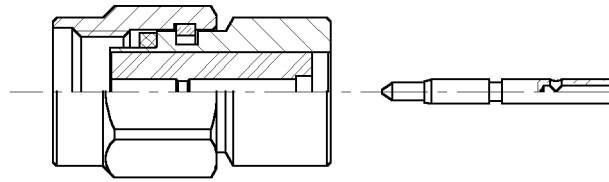
- For straight models: single piece body + center contact + outer ferrule
- For right angle models: single piece body + cap + outer ferrule

• FAST AND RELIABLE CABLE ATTACHMENT

The cable connectors can be either fully crimped or soldered/crimped, offering full flexibility for high volume production with standard manual or pneumatic tooling: fast and reliable.

- The center contact can be either crimped or soldered
- The outer contact is attached to the cable by crimping a ferrule

• SIMPLE SNAP-IN CENTER CONTACT CAPTIVATION (FOR FULL CRIMP MODELS)



The relative position of the center contact into the interface is mechanically guaranteed by the snapping of the insulator inner shoulder into the groove of the center contact.

This design facilitates the captivation operation in contrast of other designs, requiring 2 insulators to provide contact retention.

• EXTENDED FREQUENCY SMA DC-27 GHz

Radiall offers an extended frequency SMA range allowing coaxial system operation up to 27 GHz. This series mates with the standard SMA series and maintains the same mechanical characteristics (part numbers ending with 700, 701 or 702).

• SOLDERLESS ATTACHMENT TO SEMI-RIGID CABLE

Radiall's SMA crimp connector series offers an exciting alternative for assembling SMA connectors to semi-rigid cable. The main advantages of these connectors are: time savings, repeatability and performance.



Introduction



• SMA HERMETIC

Hermetic connectors are required to maintain a pressurized or vacuum environment inside a micro-electronic package. Radiall offers 3 types of hermetic connectors:

1. Field replaceable hermetic receptacles with separate glass bead

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

The hermeticity level is guaranteed by the glass bead soldered into the package. A large selection of glass beads is available from dia 0.3 to 0.5 mm. They are usually ordered separately from the receptacle. The receptacle can be removed (field replaceable) from the package for maintenance without any risk of leakage. The field replaceable receptacle is recommended when a high number of matings is required.

2. Hermetic receptacles with integrated glass bead

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

The glass bead is already in place inside the receptacle, hermeticity is guaranteed by a solder joint between the receptacle and the package or with a metallic compression gasket. Screw-on receptacle with metallic compression gasket offers superior climatic resistance: -65°C +200°C.

3. Hermetic receptacles without glass bead

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

A good hermeticity level is obtained with a metallic gasket at a cost advantage compared to glass beads.



50Ω

DC - 18 GHz
DC - 27 GHz

GENERAL

- Sub-miniature coaxial connectors
- Screw-on coupling
- High RF performance
- 2 plating options:
 - passivated stainless steel
 - gold plated
- Wide hermetically sealed range
- Space qualified range of products
- SMA extended frequency 27 GHz

APPLICABLE STANDARDS

- MIL-C-39012
- EC 169-1
- CECC 22110
- CECC 22111 - 801 to 808
- BS 9210 N006

SPACE QUALIFIED/APPROVALS

(For space range)

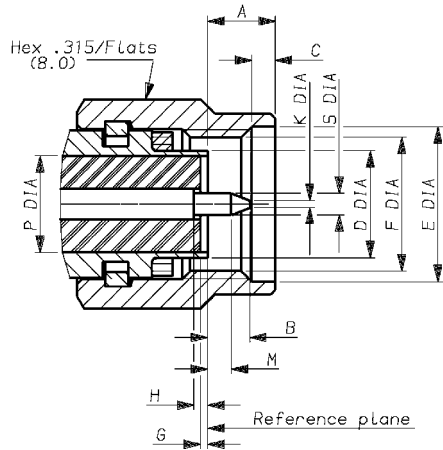
- SCC 3402 (ESA)
- CNES

APPLICATIONS

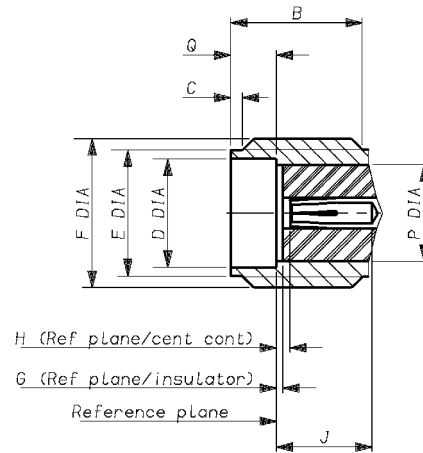
- Civil & Military Telecommunications
- Civil & Military Aeronautics
- Military equipments
- Space
- Measurement systems

Interface

PLUG



JACK



Letter	mm		inch	
	min.	max.	min.	max.
A		3.43		.135
B		2.54		.100
C	0.38	1.14	.015	.045
D DIA		4.59		
E	6.35		.250	
F DIA	1/4 36 UNS 2B			
G*	0.0	-0.20	0.0	-.008
H*	0.0	-0.25	0.0	-.010
J				
K DIA		0.38		.015
M	1.27		.050	
P DIA	4.10 nom.		.161 nom.	
Q DIA				
S DIA	0.90	0.94	.035	.037

Letter	mm		inch	
	min.	max.	min.	max.
A				
B	4.31		.170	
C	0.38	1.14	.015	.045
D DIA	4.596		.181	
E DIA	5.28	5.49	.208	.216
F DIA	1/4 36 UNS 2A			
G*	0.0	-0.20	0.0	-.008
H*	0.0	-0.25	0.0	-.010
J	2.92		.115	
K				
M				
P DIA	4.10 nom.		.161 nom.	
Q	1.88	1.98	.074	.078
S DIA				

***Note:**
Means behind ref plane

Characteristics

Test / Characteristics	Values / Remarks
------------------------	------------------

ELECTRICAL CHARACTERISTICS

Impedance		50Ω					
Frequency range		DC - 18 GHz					Extended
V.S.W.R. (typ.) • Straight connector	Frequency	1 GHz	2.4 GHz	6 GHz	12.4 GHz	18 GHz	27 GHz
	.085"	1.01	1.01	1.04	1.06	1.06	1.12
	.141"	1.01	1.01	1.01	1.03	1.05	1.10
	2.6/50S	1.05	1.07	1.12	1.15		
	5/50S	1.04	1.05	1.10	1.12		
	• Right angle connector						
	.085"	1.01	1.02	1.06	1.14		
	.141"	1.01	1.02	1.08	1.10		
	2.6/50S	1.06	1.15	1.18	1.24		
	5/50S	1.06	1.15	1.15	1.25		
Insertion loss (typ.) dB • Straight connector	.085"	0.03	0.03	0.05	0.08	0.10	0.15
	.141"	0.02	0.02	0.02	0.02	0.02	0.10
	2.6/50S						
	5/50S						
	• Right angle connector						
	.085"						
	.141"						
	2.6/50S						
	5/50S						
RF leakage (dB max)		- 90 + F [GHz]					
• Connectors for semi-rigid cables solder attachment							
• Connectors for flexible cables crimp attachment		- 60 + F [GHz]					
• Receptacles		- 100 + F [GHz]					
Insulation resistance		5 000 MΩ min					
Contact resistance		After tests			Initial		
• Outer conductor		4 mΩ			3 mΩ		
• Inner conductor		3 mΩ			2 mΩ		
Working voltage in VRMS • Sea level • 70 000 ft (21000 m)		.085", RG 405, KS 1	.141", RG 402, KS 2	RG 174, 188, 316, KX 3, KX 22		RG 55, 142, 223, KX 23	
		350	500	250		335	
		85	125	65		85	
Dielectric withstanding voltage in VRMS		1000	1500	750		1000	
RF testing voltage at in VRMS		670	1000	500		670	

MECHANICAL CHARACTERISTICS

Durability	500 matings			
Force to engage and disengage	23 Ncm - [2 inch pounds]			
Recommended coupling nut torque	80 to 115 Ncm - [7 to 10 inch pounds]			
Coupling nut retention force	270 N - [60 Lbs]			
Cable retention force	.085", RG 405, KS 1	.141", RG 402, KS 2	RG 174, 188, 316, KX 3, KX 22	RG 55, 142, 223, KX 23
	135 N [30 Lbs]	270 N [60 Lbs]	110 N [25 Lbs]	180 N [40 Lbs]
Center contact retention force				
	27 N			
• Axial	2.8 N			
• Torque				

Characteristics

Test / Characteristics	Values / Remarks
------------------------	------------------

ENVIRONMENTAL CHARACTERISTICS

Temperature range - Standard models - Semi-rigid cables - R125 753 000	-65°C / + 165°C -65°C / +105°C -40°C / +100°C
Thermal shock	MIL STD 202, method 107, condition B
High temperature test	MIL STD 202, method 108
Corrosion (salt spray)	MIL STD 202, method 101, condition B
Vibration	MIL STD 202, method 204, condition D, 20g
Shock	MIL STD 202, method 213
Moisture resistance	MIL STD 202, method 106
Hermetic test	Down to 10 ⁻⁶ mmHg (Torr) leakage rate < 10 ⁻⁶ atm/cm ³ /sec
Barometric pressure	MIL STD 202, method 105, condition C

MATERIALS AND PLATING

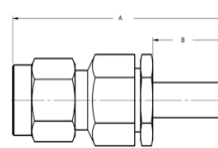
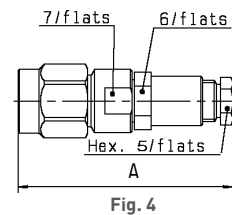
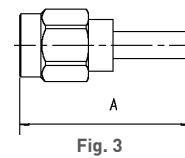
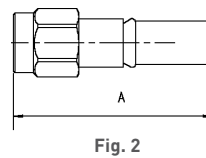
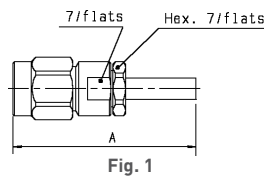
	Material	Plating
Body/nut	Stainless steel	Passivated or Gold plated (bodies)
Center contacts	Beryllium copper (female) Brass (male)	Gold plated
Gaskets	Silicone rubber	
Insulators	PTFE	

Standard packaging: 100 pieces

All dimensions are given in mm.

Straight plugs

STRAIGHT PLUGS FOR FLEXIBLE CABLES



Cable group	Cable group dia.	Part number (Gold)	Part number (Passivated)	Fig.	Dimensions A (mm)	Captive center contact	Assembly type	Note
RG178 / RG196	2/50/S	R125 069 000		1	26	yes	Crimp	
Special	2.2/50/D		R125 002 200	4	25	yes	Clamp	
RG174 / RG316	2.6/50/S	R125 071 120		3	24.3	yes	Crimp	Single piece body
		R125 072 000	R125 072 001	2	21.1	no		Single piece body heatshrink sleeve
		R125 073 000	R125 073 001	1	26	yes	Clamp	
		R125 091 000	R125 091 001	4	2	yes		
RD316	2.6/50/D	R125 072 080		2	20.1	no	Crimp	Single piece body heatshrink sleeve
		R125 072 220		3	23.4	yes		Single piece body
RG58 / RG141	5/50/S	R125 075 000		3	24.9	no		Single piece body heatshrink sleeve
		R125 077 000		1	28	yes		
RG142 / RG223 / RG400	5/50/D	R125 076 000	R125 076 001	3	25	no		
		R125 078 000	R125 078 001	1	28	yes		

Straight plugs

STRAIGHT PLUGS FOR FLEXIBLE CABLES (CONT'D)

Cable group	Cable group dia.	Part number (Gold)	Part number (Passivated)	Fig.	Dimensions A (mm)	Dimensions B (mm)	Captive center contact	Assembly type	Note
RG178 / RG196	2/50/S	9001-1023-002	9001-9023-002	3	20.3		no	Crimp	For passivated version, coupling nut only is passivated
		9001-1033-002	9001-9033-002					Solder	
		9001-1553-002	9201-9553-002	5	19.5	0	yes	Clamp	
		9001-1573-002	9201-9573-002					Clamp	
RD178	2/50/D	9001-1023-005	9001-9023-005	3	20.3		no		
		9001-1033-005	9001-9033-005					Solder	
		9001-1553-005	9001-9553-005	5	19.5	0	yes	Clamp	
		9001-1573-005	9001-9573-005					Crimp	
RG174/RG316	2.6/50/S	9001-1023-003	9001-9023-003	3	20.3		no		
		9001-1033-003	9001-9033-003					Solder	
		9001-1553-003	9001-9553-003	5	19.5	0	yes	Clamp	
		9001-1573-003	9001-9573-003					Clamp	
RD316	2.6/50/D	9001-1023-019	9001-9023-019	3	20.3		no		
		9001-1033-019	9001-9033-019					Solder	
		9001-1553-019	9001-9553-019	5	19.5	0	yes	Clamp	
		9001-1573-019	9001-9573-019					Crimp	
RG58/RG141	5/50/S	9001-1023-006	9001-9023-006	3	20.3		no		
		9001-1033-006	9001-9033-006					Solder	
		9001-1553-006	9001-9553-006	5	19.5	0	yes	Clamp	
		9001-1573-006	9001-9573-006					Crimp	
RG142/RG223/RG400	5/50/D	9001-1023-001	9001-9023-001	3	20.3		no		
		9001-1033-001	9001-9033-001					Solder	
		9001-1553-001	9001-9553-001	5	19.5	0	yes	Clamp	
		9001-1573-001	9001-9573-001					Crimp	

STRAIGHT PLUGS SOLDER TYPE FOR SEMI-RIGID CABLES

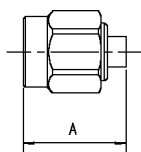
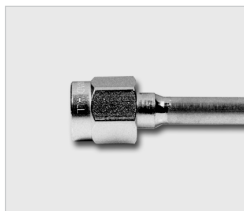


Fig. 1

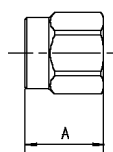


Fig. 2

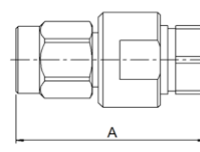


Fig. 3

Cable group	Cable group dia.	Part number (Gold)	Part number (Gold/Passivated coupling nut)	Part number (Nickel)	Fig.	Dimensions A (mm)	Captive center contact	Note
RG405	.085"	R125 052 000	R125 052 002		1	11.1	no	Single piece body
		R125 052 170						Loose parts
		R125 052 500						Retractable coupling nut / Single piece body
			R125 052 702					DC-27 GHz Single piece body
RG402	.141"	R125 054 000	R125 054 002		2	8.5	n/a	Without center contact
		R125 054 500				7.5	n/a	Without center contact / Retractable coupling nut
		R125 055 000	R125 055 002		1	11.2	no	Single piece body
		R125 055 500						Retractable coupling nut / Single piece body
			R125 055 702					DC-27 GHz without center contact
			R125 057 002					Without center contact
RG401	.250"	R125 051 000			3	21.1	no	Two pieces body

Straight plugs

STRAIGHT PLUGS SOLDER TYPE FOR SEMI-RIGID CABLES (CONT'D)

Cable group	Cable group dia.	Part number (Gold)	Part number (Gold/Passivated coupling nut)	Part number (Nickel)	Fig.	Dimensions A (mm)	Captive center contact	Note
RG405	.085"	9501-1593-010	9501-9593-010		3	19.5	yes	Solder-Clamp
		9401-1083-010		9401-7083-010	1	11.2	no	Solder type
		9401-1083-210		9401-7083-210		8.4		
		9401-1583-010		9401-7583-010		11.2	yes/For one-step cable assembly	
RG402	.141"	9501-1593-009	9501-9593-009		3	19.5	yes	Solder-Clamp
		9401-1083-109		9401-7083-109	1	11.2	no	Solder type
		9401-1583-109		9401-7583-109			yes/For one-step cable assembly	
		9301-1063-009		9301-7063-009		8.4	n/a	Without center contact

STRAIGHT PLUGS CRIMP TYPE FOR SEMI-RIGID CABLES

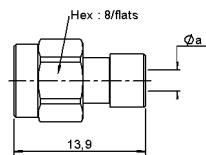


Fig. 1

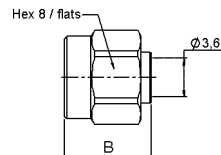


Fig. 2

Cable group	Cable group dia.	Part number (gold/passivated coupling nut)	Fig.	Dimensions A (mm)		Captive center contact	Note
				$\varnothing a$	B		
RG405	.085"	R125 052 901	1	2.2		yes	
RG402	.141"	R125 053 901	2		8.25	n/a	Retractable coupling nut
		R125 054 901	2		9.7	n/a	Without center contact
		R125 055 901	1	3.64		yes	

Right angle plugs

RIGHT ANGLE PLUGS FOR FLEXIBLE CABLES

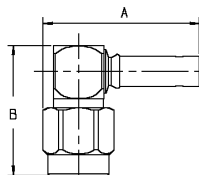


Fig. 1

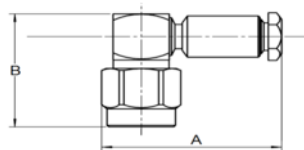


Fig. 2

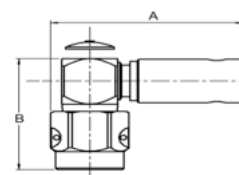


Fig. 3

Cable group	Cable group dia.	Part number (Gold)	Part number (Passivated)	Fig.	Dimensions (mm)		Captive center contact	Assembly type	Note
					A	B			
RG178 / RG196	2/50/S	R125 170 402		1	19.6	16.85	yes	Crimp	Incl. heatshrink tube
Special	2.2/50/D		R125 163 200	2	20.2	16.4		Clamp	
RG174 / RG316	2.6/50/S	R125 172 000	R125 172 001	1	19.6			Crimp	Incl. heatshrink tube
RD316	2.6/50/D	R125 174 000		1	18.6				
RG58 / RG141	5/50/S	R125 175 000	R125 175 001	2	21.8				
RG142 / RG223 / RG400	5/50/D	R125 176 000	R125 176 001	2					
		R125 176 505		3		Lock wire hole nut Incl. heatshrink tube			
RG178/RG196	2/50/S	9043-1523-002	9043-9523-002	1	19.3	17		Crimp	
		9243-1553-002	9243-9553-002	2	18.8			Clamp	
		9043-1533-002		1	19.3			Solder	
9043-1523-005	9043-9523-005	Crimp							
RD178	2/50/D	9243-1553-005	9243-9553-005	2	18.8			Clamp	
		9043-1533-005		1	19.3			Solder	
		90431523-003	9043-9523-003					2	18.8
RG174/RG316	2.6/50/S	9243-1553-003	9243-9553-003	1	19.3			Clamp	
		9043-1533-003						Solder	
		RD316	2.6/50/D	9043-1523-019	9043-9523-019			2	18.8
9243-1553-019	9243-9553-019			Clamp					
9043-1533-019				1	19.3			Solder	
RG58/RG141	5/50/S	9043-1523-006	9043-9523-006					2	18.8
		9243-1553-006	9243-9553-006	Clamp					
		9043-1533-006		1	19.3			Solder	
RG142/RG223/RG400	5/50/D	9243-1553-001	9243-9553-001	2	18.8			Clamp	
		9043-1533-001						Solder	
		9043-1523-001	9043-9523-001	1	19.3			Crimp	

Right angle plugs

RIGHT ANGLE PLUGS FOR SEMI-RIGID CABLES

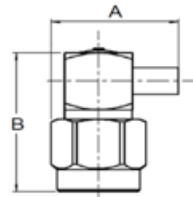


Fig. 1

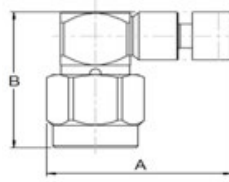


Fig. 2

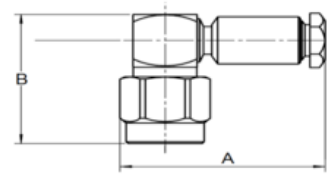


Fig. 3



Cable group	Cable group dia.	Part number (gold)	Part number (gold/passivated nut)	Fig.	Dimensions A (mm)	Dimensions B (mm)	Captive center contact	Assembly type
RG405	.085"	R125 153 000	R125 153 002	1	11.9	16.3	yes	Solder type
RG402	.141"	R125 154 000	R125 154 002					
RG405	.085"		R125 153 901	2	15.7	15.8		Crimp type
RG402	.141"		R125 154 901					
RG405	.085"	9443-1563-010		1	12.2	17		Solder type
RG402	.141"	9443-1563-009						
RG405	.085"	9543-1593-010	9543-9593-010	3	18.8	17.5		Solder-Clamp
RG402	.141"	9543-1593-009	9543-9593-009					

Straight jacks

STRAIGHT JACKS FOR FLEXIBLE CABLES

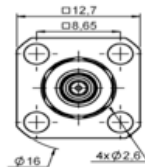


Fig. 1

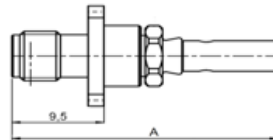


Fig. 2

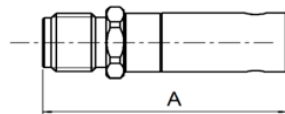


Fig. 3

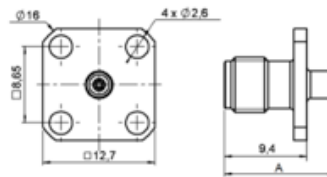


Fig. 4

Cable group	Cable group dia.	Part number (Gold)	Part number (Passivated)	Fig.	Dimensions A (mm)	Captive center contact	Panel drilling	Note
RG174 / RG316	2.6/50/S	R125 236 000		2	25.05	yes		Crimp or solder
		R125 272 000		1	27.5		P03	Square flange
RG58 / RG141	5/50/S	R125 237 000		3	23.1	no		
		R125 277 000		1	28.9		P03	Square flange
RG142 / RG223 / RG400	5/50/D	R125 238 000		3	23.1			

Straight jacks

STRAIGHT JACKS FOR FLEXIBLE CABLES (CONT'D)

Cable group	Cable group dia.	Part number (Gold)	Part number (Passivated)	Fig.	Dimensions A (mm)	Captive center contact	Panel drilling	Note
RG178 / RG196	2/50S	9002-1023-002	9002-9023-002	3	20.3	no		Crimp type
		9002-1033-002			20.3			Solder type
		9102-1573-002	9102-9573-002	2	27.9	yes		Crimp type
		9031-1023-002	9031-9023-002	4	21	no	P03	Crimp type-square flange
		9031-1033-002			21			Solder type-square flange
		9131-1573-002	9131-9573-002	1	27.4	yes		Crimp type-square flange
RD178	2/50/D	9002-1023-005	9002-9023-005	3	20.3	no		Crimp type
		9002-1033-005			20.3			Solder type
		9102-1573-005	9102-9573-005	2	27.9	yes		Crimp type
		9031-1023-005	9031-9023-005	4	21	no	P03	Crimp type-square flange
		9031-1033-005			21			Solder type-square flange
		9131-1573-005	9131-9573-005	1	27.4	yes		Crimp type-square flange
RG174 / RG316	2.6/50S	9002-1023-003	9002-9023-003	3	20.3	no		Crimp type
		9002-1033-003			20.3			Solder type
		9102-1573-003	9102-9573-003	2	27.9	yes		Crimp type
		9031-1023-003	9031-9023-003	4	21	no	P03	Crimp type-square flange
		9031-1033-003			21			Solder type-square flange
		9131-1573-003	9131-9573-003	1	27.4	yes		Crimp type-square flange
RD316	2.6/50D	9002-1023-019	9002-9023-019	3	20.3	no		Crimp type
		9002-1033-019			20.3			Solder type
		9102-1573-019	9102-9573-019	2	27.9	yes		Crimp type
		9031-1023-019	9031-9023-019	4	21	no	P03	Crimp type-square flange
		9031-1033-019			21			Solder type-square flange
		9131-1573-019	9131-9573-019	1	27.4	yes		Crimp type-square flange
RG58 / RG141	5/50S	9002-1023-006	9002-9023-006	3	20.3	no		Crimp type
		9102-1573-006	9102-9573-006	2	27.9	yes		Solder type
		9002-1033-006		3	20.3	no		Crimp type-square flange
		9031-1023-006	9031-9023-006	4	21			Solder type-square flange
		9031-1033-006			21	yes		Crimp type-square flange
		9131-1573-006	9131-9573-006	1	27.4			Solder type-square flange
RG142 / RG223 / RG400	5/50D	9002-1033-001		3	20.3	no		Solder type
		9102-1573-001	9102-9573-001	2	27.9	yes		Crimp type
		9031-1023-001	9031-9023-001	4	21	no	P03	Crimp type-square flange
		9031-1033-001			21			Solder type-square flange
		9131-1573-001	9131-9573-001	1	27.4	yes		Crimp type-square flange
		9002-1023-001	9002-9023-001	3	20.3	no		Crimp type

Straight jacks

STRAIGHT JACKS FOR SEMI-RIGID CABLES

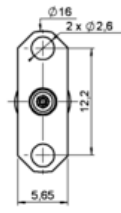


Fig. 1

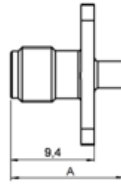


Fig. 2

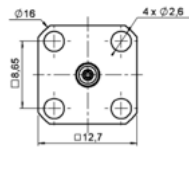


Fig. 3

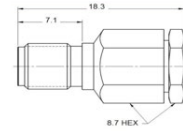


Fig. 4

Cable group	Cable group dia.	Part number (Gold)	Part number (Passivated)	Part number (Nickel)	Fig.	Dimensions	Captive center contact	Panel drilling	Note
						A (mm)			
RG405	.085"	R125 222 000			3	12.7	no		
		R125 252 000			1			P02	2 hole flange
		R125 256 000			2			P03	Square flange
RG402	.141"	R125 225 000			3				
		R125 251 000			1			P02	2 hole flange
		R125 255 000			2			P03	Square flange
		R125 225 900							
RG405	.085"	9402-1083-010		9402-7083-010	3	15.2	yes		Solder type
		9402-1583-010		9402-7583-010		12.7	no		
		9431-1083-010		9431-7083-010	2		13.9	yes/for one-step cable assembly	
		9431-1583-010		9431-7583-010		no			
		9441-1083-010		9441-7083-010	yes/for one-step cable assembly	P02			
		9441-1583-010		9441-7583-010	no				
		9502-1593-010	9502-9593-010		4	yes/for one-step cable assembly			
				yes		Solder-Clamp type			
RG402	.141"	9402-1083-009		9402-7083-009	3	12.7	no		Solder type
		9402-1583-009		9402-7583-009			yes/for one-step cable assembly		
		9431-1083-009		9431-7083-009	2	13.9	no	P03	
		9431-1583-009		9431-7583-009			yes/for one-step cable assembly		
		9441-1083-009		9441-7083-009	1		no	P02	
		9441-1583-009		9441-7583-009			yes/for one-step cable assembly		
		9502-1593-009	9502-9593-009		4	yes		Solder-Clamp type	

Bulkhead jacks

STRAIGHT BULKHEAD JACKS FOR FLEXIBLE CABLES (rear mount)

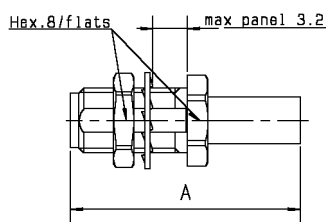
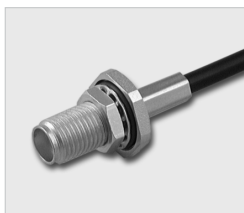


Fig. 1

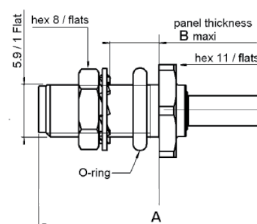


Fig. 2

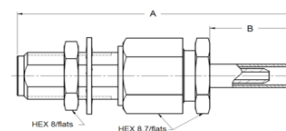
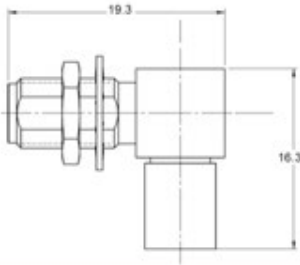


Fig. 3

Cable group	Cable group dia.	Part number (Gold)	Part number (Passivated)	Fig.	Dimensions (mm)		Captive center contact	Panel drilling	Note
					A	B			
RG178 / RG196	2/50/S	R125 320 020		2	26.1	5.6	yes	P06	Totally waterproof
RG174 / RG316	2.6/50/S	R125 303 000	R125 303 001	1	25.7				Crimp and solder
		R125 312 120			22.4				Heatshrink sleeve
		R125 321 020		2	23.7	3.2			Full crimp
RD316	2.6/50/D	R125 313 120		1	22.4				Totally waterproof
		R125 322 030		2		3.2			Full crimp
RG58 / RG141	5/50/S	R125 314 120		1	25.4				Panel sealed
RG142 / RG223 / RG400	5/50/D	R125 315 120							Full crimp
		R125 308 000			29.6				Crimp and solder
RG178 / RG196	2/50/S	9030-1023-002	9030-9023-002		23.9		no		Crimp type
		9030-1033-002							Solder type
		9130-1573-002	9130-9573-002	3	30.5	9.5	yes		Crimp type
		9230-1553-002	9230-9553-002		21	0			Clamp type
RD178	2/50/D	9030-1023-005	9030-9023-005	1	23.9		no		Crimp type
		9030-1033-005							Solder type
		9130-1573-005	9130-9573-005	3	30.5	9.5	yes		Crimp type
		9230-1553-005	9230-9553-005		21	0			Clamp type
RG174 / RG316	2.6/50/S	9030-1023-003	9030-9023-003	1	23.9		no		Crimp type
		9030-1033-003							Solder type
		9130-1573-003	9130-9573-003	3	30.5	9.5	yes		Crimp type
		9230-1553-003	9230-9553-003		21	0			Clamp type
RD316	2.6/50/D	9030-1023-019	9030-9023-019	1	23.9		no		Crimp type
		9030-1033-019							Solder type
		9130-1573-019	9130-9573-019	3	30.5	9.5	yes		Crimp type
		9230-1553-019	9230-9553-019		21	0			Clamp type
RG58 / RG141	5/50/S	9030-1023-006	9030-9023-006	1	23.9		no		Crimp type
		9030-1033-006							Solder type
		9130-1573-006	9130-9573-006	3	30.5	9.5	yes		Crimp type
		9230-1553-006	9230-9553-006		21	0			Clamp type
RG142 / RG223 / RG400	5/50/D	9030-1023-001	9030-9023-001	1	23.9		no		Crimp type
		9030-1033-001							Solder type
		9130-1573-001	9130-9573-001	3	30.5	9.5	yes		Crimp type
		9230-1553-001	9230-9553-001		21	0			Clamp type

Bulkhead jacks**RIGHT ANGLE BULKHEAD JACKS CRIMP TYPE FOR FLEXIBLE CABLES (rear mount)**

Cable group	Cable group dia.	Part number (Gold)	Part number (Passivated)	Captive center contact	Panel drilling	Note
RG178 / RG196	2/50S	9613-1523-002	9613-9523-002	yes	P06	Crimp type
RD178	2/50D	9613-1523-005	9613-9523-005			
RG174 / RG316	2.6/50S	9613-1523-003	9613-9523-003			
RD316	2.6/50D	9613-1523-019	9613-9523-019			
RG58 / RG141	5/50S	9613-1523-006	9613-9523-006			
RG142 / RG223 / RG400	5/50D	9613-1523-001	9613-9523-001			

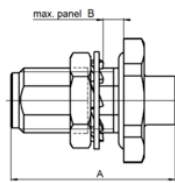
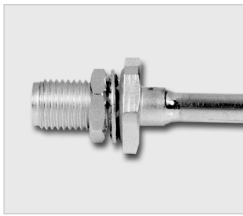
BULKHEAD JACKS SOLDER TYPE FOR SEMI-RIGID CABLES (rear mount)

Fig. 1

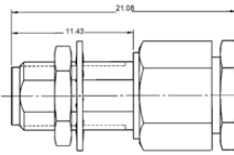


Fig. 2

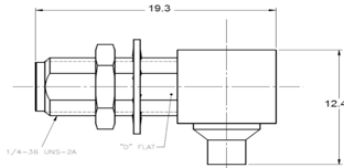


Fig. 3

Cable group	Cable group dia.	Part number (Gold)	Part number (Nickel)	Part number (Passivated)	Fig.	Dimensions A (mm)	Dimensions B (mm)	Captive center contact	Panel drilling	Note
RG405	.085"	R125 326 000			1	16	2.4	no	P06	Panel sealed
RG402	.141"	R125 325 000				17.1	3.5			Unsealed
		R125 305 000				17.8				Panel sealed
RG405	.085"	9453-1083-010	9453-7083-010		3	19.3	3.2	yes		Solder type
		9613-1563-010	9613-9563-010		1	17.8		yes/for one-step cable assembly	P06	Panel sealed
		9453-1583-010	9453-7583-010		2			yes		Solder-Clamp
RG402	.141"	9530-1593-010		9530-9593-010	1	17.8		yes/for one-step cable assembly		Panel sealed
		9453-1583-009	9453-7583-009		2			yes		Solder-Clamp
		9530-1593-009		9530-9593-009	1	17.8		no		Panel sealed
		9453-1083-009	9453-7083-009		3	19.3		yes		Solder type

Receptacles

STRAIGHT FEMALE FLANGE RECEPTACLES - SOLDER POT

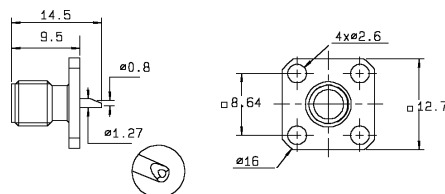
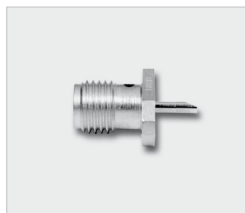


Fig. 1

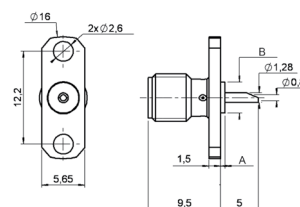


Fig. 2

Part number (Gold)	Part number (Passivated)	Fig.	Dimensions (mm)		Captive center contact	Panel drilling	Note
			A	B			
R125 403 000	R125 403 001	1			yes (4 indents)	P04	Square flange
R125 453 000		2	0.6	Ø 4.06		P01	2 hole flange
R125 454 000	R125 454 001					yes	
9408-1113-000	9408-9113-000		0.8				
9408-1113-002	9408-9113-002		0				

STRAIGHT AND RIGHT ANGLE FEMALE SQUARE FLANGE RECEPTACLES - SOLDER POT

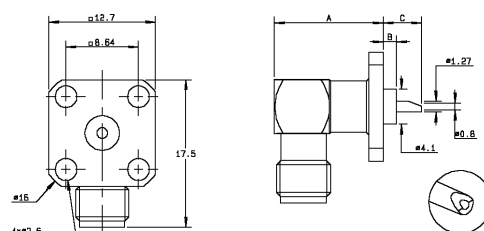
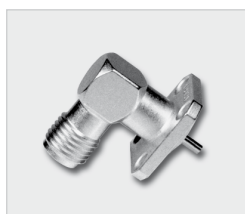


Fig. 1

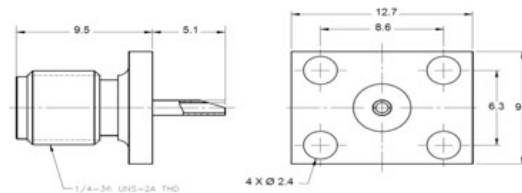


Fig. 2

Part number (Gold)	Part number (Passivated)	Fig.	Dimensions (mm)			Captive center contact	Panel drilling
			A	B	C		
	R125 653 001	1	12.4	1.57	4.6	yes	P04
R125 654 000			11.1	0	6.1		
9424-1513-000	9424-9513-000		12.7	1.6	4.8		P03
9425-1513-000	9425-9513-000		9.1				
9407-1113-000	9407-9113-000	2					

BULKHEAD FEMALE RECEPTACLE (solder pot)

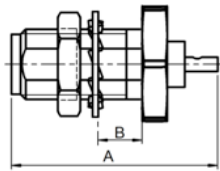


Fig. 1

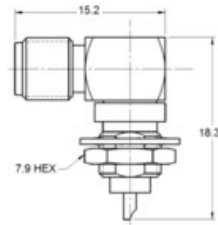


Fig. 2

Part number (Gold)	Part number (Passivated)	Fig.	Dimensions A (mm)	Dimensions B (mm)	Captive center contact	Panel drilling	Note
R125 553 000	R125 553 001	1	17.4	3.4	yes (2 indents)	P06	Rear mount
9412-1113-000	9412-9113-000		17.0	3.2	yes		
9422-1113-000	9422-9113-000						Front mount
9432-1113-000	9432-9113-000						Rear mount, panel sealed
9609-1513-000	9609-9513-000	2					

SCREW-ON FEMALE RECEPTACLES (front mount)

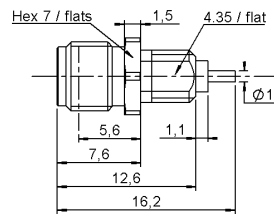


Fig. 1

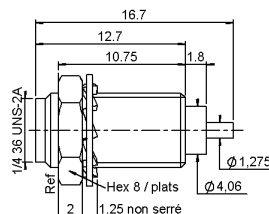


Fig. 2

Part number (gold)	Fig.	Captive center contact	Note
R125 555 500	1	yes	Screw-on
R125 560 000	2		

STRAIGHT MALE FLANGE RECEPTACLES (solder pot)

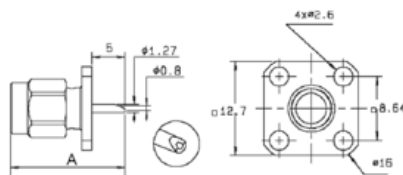


Fig. 1

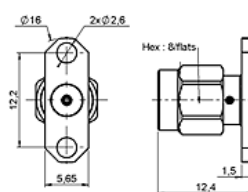
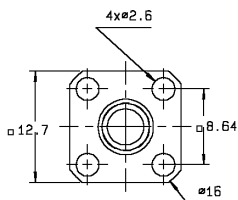
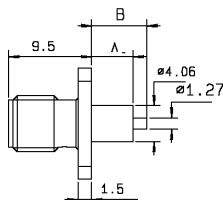


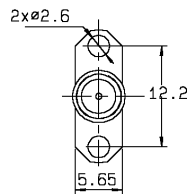
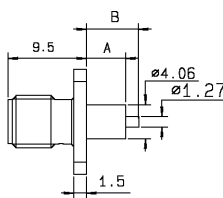
Fig. 2

Part number (Gold)	Fig.	Captive center contact	Dimensions A (mm)	Panel drilling	Note
R125 433 000	1	yes (4 indents)	17.4	P04	Square flange
R125 483 000	2			P01	2 hole flange
9404-1113-000	1	yes	14.5	P03	1/2" Square flange
9476-1113-000				P11	3/8" Square flange

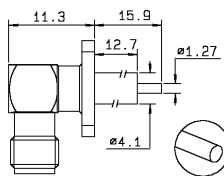
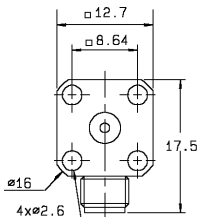
SQUARE FLANGE EXTENDED DIELECTRIC FEMALE RECEPTACLES



Part number (Gold)	Part number (Passivated)	Dimensions (mm)		Captive center contact	Panel drilling
		A	B		
R125 413 000	R125 413 001	12.7	15.9	no	P04
R125 414 000	R125 414 001			yes (epoxy)	
R125 414 004				yes (4indents)	
R125 415 000	R125 415 001	18	20.5	yes (epoxy)	
R125 415 030		3.2	5.4		
R125 415 275		15	17.9	yes (4 indents)	
R125 415 270	R125 415 271			yes (epoxy)	
R125 416 460		4	8		
9004-1113-000	9004-9113-000	14.9	3	yes (4 indents)	P11
9004-1213-000				yes (square flange)	
	9007-9113-000			yes (4 incidents)	



Part number (Gold)	Part number (Passivated)	Dimensions (mm)		Captive center contact	Panel drilling
		A	B		
R125 464 000	R125 464 001	12.7	15.9	yes (epoxy)	P01
R125 464 270	R125 464 271	15	17.9		
R125 464 274				14.98	
9008-1113-000		no			
9008-1213-000		yes (4 indents)			
	9008-9113-000				



Part number (Gold)	Part number (Passivated)	Captive center contact	Panel drilling
R125 654 450	R125 654 451	yes	P04

Receptacles

STRAIGHT MALE FLANGE EXTENDED DIELECTRIC RECEPTACLES

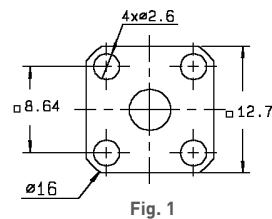
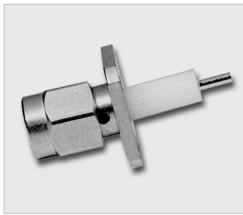


Fig. 1

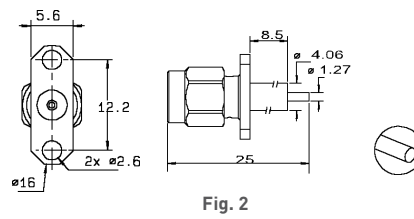


Fig. 2

Part number (Gold)	Part number (Passivated)	Fig.	Captive center contact	Panel drilling	Note
R125 444 000	R125 444 001	1	yes (epoxy)	P04	Square flange
R125 474 000	R125 474 001	2		P01	2 hole flange

PCB FEMALE RECEPTACLES

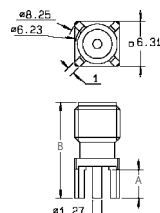


Fig. 1

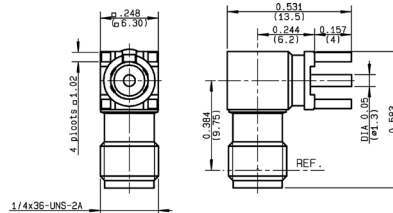


Fig. 2

Part number (Gold)	Fig.	Dimensions (mm)	Captive center contact	PCB pattern	Note
R125 426 000	1	A 4	yes	P05	Selective tin plating
R125 426 140		B 6.9			
R125 680 000	2				

STRAIGHT FEMALE SQUARE FLANGE RECEPTACLES - TAB CONTACT

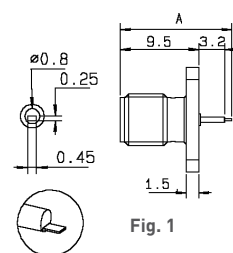
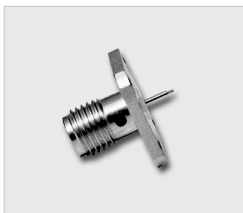


Fig. 1

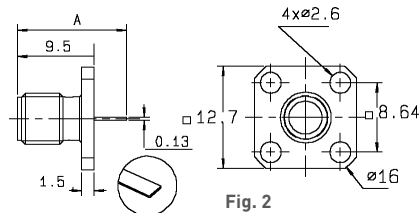


Fig. 2

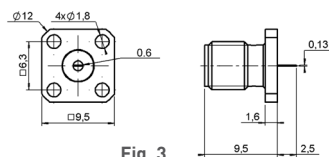


Fig. 3

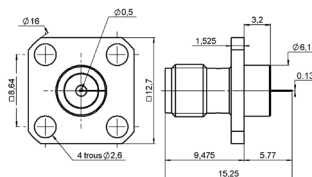


Fig. 4

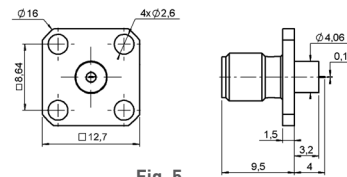


Fig. 5

Part number (Gold)	Part number (Passivated)	Fig.	Dimensions A (mm)	Captive center contact	Panel drilling	Contact type
R125 501 000	R125 501 001	1	13.5	yes (epoxy)	P04	Offset tab
R125 510 000	R125 510 001	2	12		P11	Tab
R125 510 500	R125 510 501	3	2.5			
R125 612 120		4				
R125 620 000		2	10.38		P04	
R125 622 000		5				
	R125 943 001	3	0.89		P11	

Receptacles

STRAIGHT AND RIGHT ANGLE FEMALE 2 HOLE FLANGE RECEPTACLES - TAB CONTACT

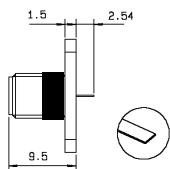
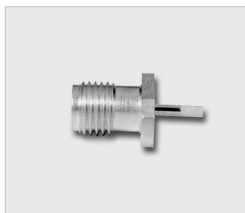


Fig. 1

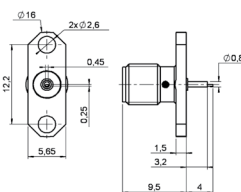


Fig. 2

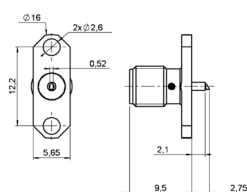


Fig. 3

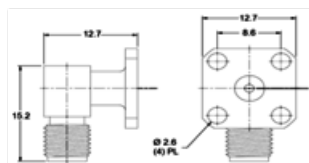


Fig. 4

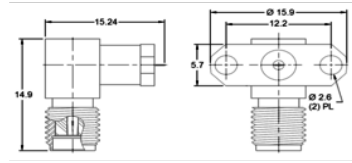
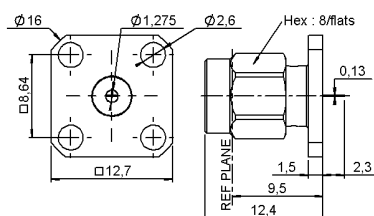


Fig. 5

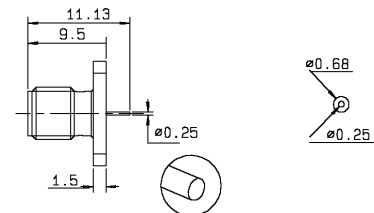
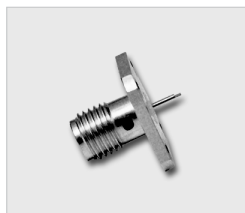
Part number (Gold)	Part number (Passivated)	Fig.	Captive center contact	Panel drilling	Contact type
R125 451 000		2	yes (epoxy)	P01	Offset tab
R125 452 000		3			Special
R125 497 000		1			Tab
9124-1513-000	9124-9513-000	4	yes	P03	Tab contact 1.3mm width
9126-1513-000	9126-9513-000	5		P01	

STRAIGHT MALE SQUARE FLANGE RECEPTACLES - TAB CONTACT



Part number (Gold)	Part number (Passivated)	Captive center contact	Panel drilling	Note
R125 488 000	R125 488 001	yes (epoxy)	P04	Unit packaging

STRAIGHT FEMALE SQUARE FLANGE RECEPTACLES - CYLINDRICAL CONTACT



Part number (Gold)	Captive center contact	Panel drilling	Note
R125 610 000	yes (epoxy)	P04	Unit packaging

Receptacles for microstrip

STRAIGHT FEMALE FLANGE RECEPTACLES - CYLINDRICAL CONTACT

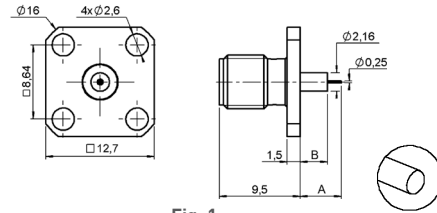
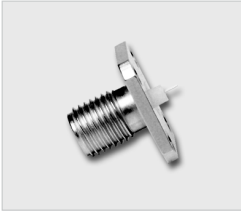


Fig. 1

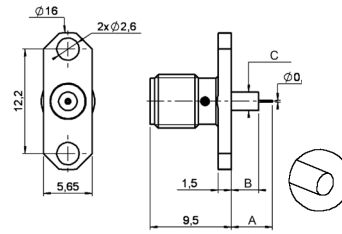


Fig. 2

Part number (Gold)	Part number (Passivated)	Fig.	Dimensions (mm)			Captive center contact	Panel drilling	Note	Captivation
			A	B	C				
R125 512 000	R125 512 001	1	4.8	3.2		yes	P04	Square flange	4 indents
R125 513 000			3.2	1.6					
R125 462 000	R125 462 001	2	4.8	3.2	2.16		P01	2 hole flange	Epoxy
R125 463 000			3.2	1.6	2.16				
	R125 617 001		4.8	3.2	4.06				

STRAIGHT MALE FLANGE RECEPTACLES - CYLINDRICAL CONTACT

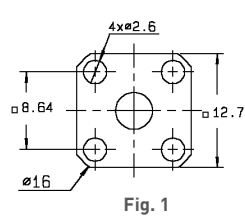


Fig. 1

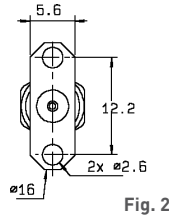
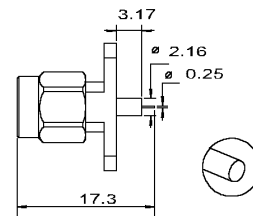


Fig. 2



Part number (Gold)	Part number (Passivated)	Fig.	Captive center contact	Panel drilling	Note
R125 492 000	R125 492 001	1	yes (epoxy)	P04	Square flange
R125 484 000	R125 484 001	2		P01	2 hole flange

Receptacles for microstrip

UNIVERSAL FIELD-REPLACEABLE RECEPTACLES - FEMALE SOCKET (accept pin 0.93 mm [.037"])

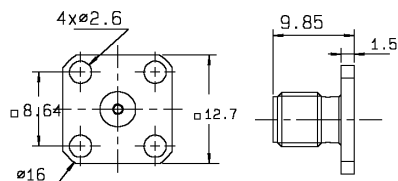
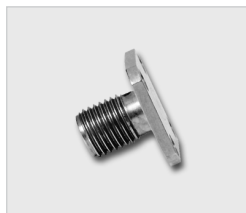


Fig. 1

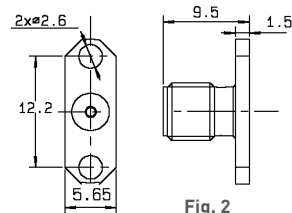


Fig. 2

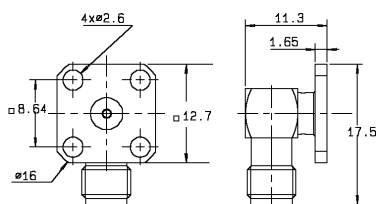


Fig. 3

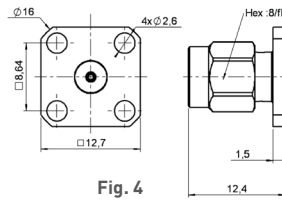


Fig. 4

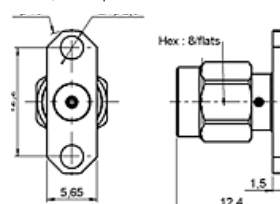


Fig. 5

Part number (Gold)	Part number (Passivated)	Fig.	Captive center contact	Panel drilling	Note
R125 410 000	R125 410 001	1	yes (epoxy)	P04	female-square flange
	R125 430 001	4			male-square flange
R125 460 000	R125 460 001	2		P01	female-2 hole flange - Unit packaging
	R125 480 001	5			male-2 hole flange
	R125 670 001	3		P04	female-right angle square flange

EDGE CARD RECEPTACLES

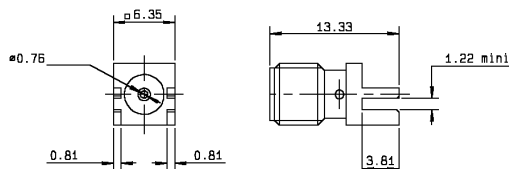
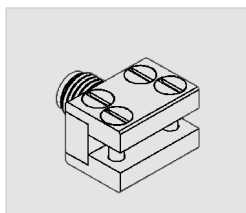


Fig. 1

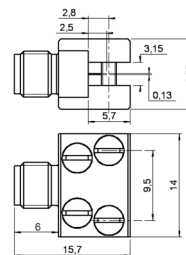
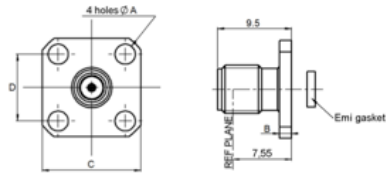
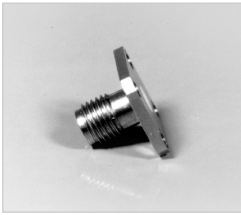


Fig. 2

Part number (Gold)	Part number (Passivated)	Fig.	Captive center contact	Note	Captivation
R125 423 200		1	yes	Solder pins	4 indents
R125 541 000	R125 541 001	2		4 screws	Epoxy

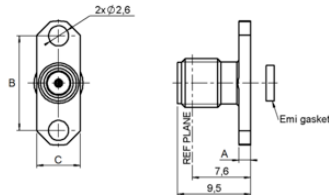
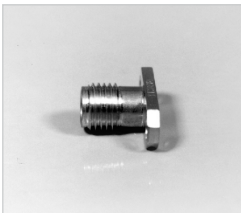
Hermetic receptacles with separate glass bead

SQUARE FLANGE 12.7 mm FEMALE RECEPTACLE



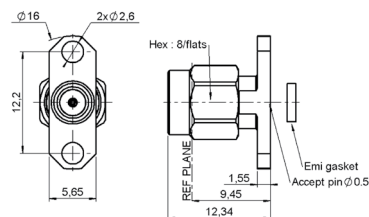
Part number (Gold)	Part number (Passivated)	Glass bead only	Dimensions (mm)				EMI gasket only	Panel drilling connector	Panel drilling glass bead	Note
			A	B	C	D				
R125 411 000	R125 411 001	R280 751 000	2.6	1.5	12.7	8.6	R280 510 000	P10	P13	Diameter pin=0.30
9074-9513-000			1.7	1.6	9.5	6.3				Diameter pin=0.45
9079-9513-000										Diameter pin=0.30
9079-9513-001										Diameter pin=0.38

NARROW FLANGE FEMALE RECEPTACLES



Part number (Gold plated)	Part number (Passivated)	Glass bead only	Dimensions (mm)			EMI gasket only	Panel drilling connector	Panel drilling glass bead	Note
			A	B	C				
R125 465 000	R125 465 001	R280 751 000	1.5	12.2	5.6	R280 510 000	P12	P13	
R125 465 010	R125 465 011	R280 757 070						P18	
	9080-9513-000	920-55	1.6	10.2	4.7	No EMI gasket			Diameter Pin = 0.30
	9180-9513-000	920-55 (included)							
	9180-9513-001	920-82 (included)							Diameter Pin = 0.38
	9144-9513-000	920-55 (included)		12.2	5.7	Contact Us	P12		

NARROW FLANGE MALE RECEPTACLES



Part number (Passivated)	Glass bead only	EMI gasket only	Panel drilling connector	Panel drilling glass bead
R125 481 001	R280 751 000	R280 510 000	P12	P13
R125 481 011	R280 757 070			P18
9050-9513-000	920-56	Contact Us		

Hermetic receptacles with integrated glass bead

SCREW-ON TYPE FEMALE RECEPTACLES

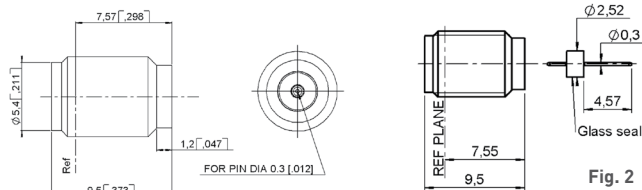
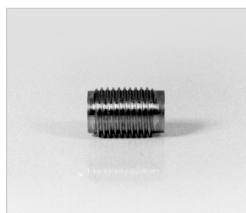
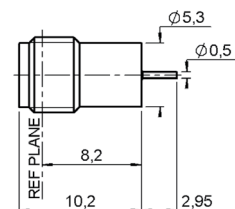


Fig. 1

Part number (Passivated)	Glass bead only	Fig.	Assembly tool	Panel drilling glass bead	Note
R125 556 001	R280 751 000	1	R282 341 010	P15	For pin dia 0.3/0.12
R125 556 011	R280 755 000			P19	For pin dia 0.5/0.19
R125 638 001	R280 751 350	2		P15	Supplied with glass bead

SOLDER TYPE FEMALE RECEPTACLE

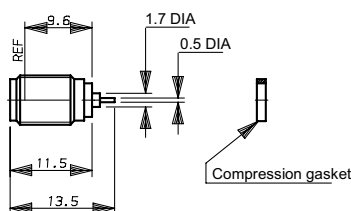
Panel feedthrough receptacles feature an internal hermetic glass bead. A ring of solder between the receptacle body and the package will provide the hermeticity level.



Part number (Gold)	Connector body	Panel drilling	Contact type
R125 630 000	FN42 alloy		Cylindrical
R125 630 040	Stainless steel		

SCREW-ON TYPE FEMALE RECEPTACLE

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



Part number (Gold)	Part number (Passivated)	Connector body	Panel drilling	Contact type
R125 609 000	R125 609 001	Stainless steel	P05	Cylindrical

SCREW-ON TYPE FEMALE RECEPTACLE WITH SLIDING CONTACT

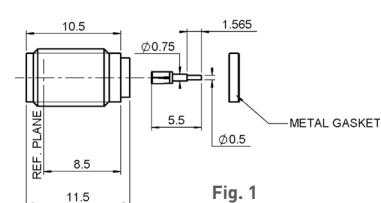
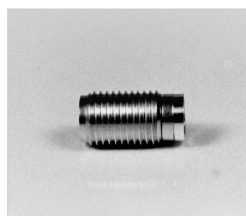


Fig. 1

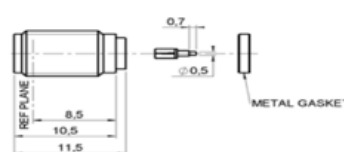
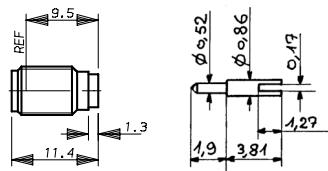
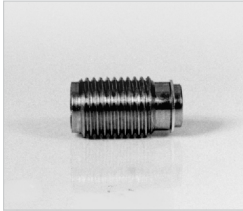


Fig. 2

Part number (Passivated)	Fig.	Connector body	Panel drilling	Contact type
R125 609 031	1	Stainless steel	P05	Cylindrical
R125 609 011	2			

Hermetic receptacles without glass bead**SCREW-ON TYPE FEMALE RECEPTACLE WITH SLIDING CONTACT**

Screw-on receptacles without glass bead provide a lower hermeticity level (10^{-6} atm/cm³/sec). A gasket is provided to guarantee the hermeticity between the receptacle and the package.



Part number (Gold)	Part number (Passivated)	Panel drilling	Contact type
R125 605 300	R125 605 301	P08	Slotted

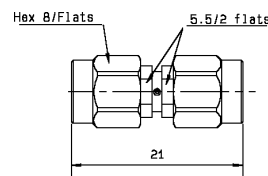
Adapters**IN SERIES ADAPTERS**

Fig. 1

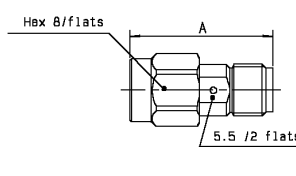


Fig. 2

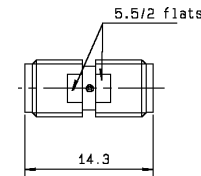


Fig. 3

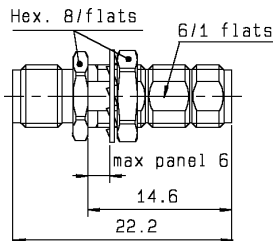


Fig. 4

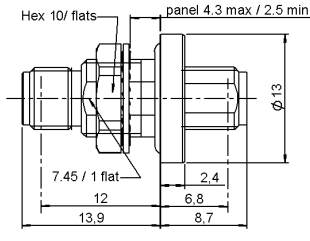


Fig. 5

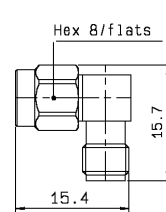


Fig. 6

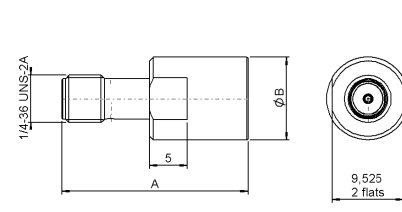


Fig. 7

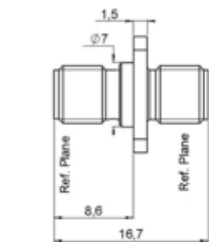


Fig. 8

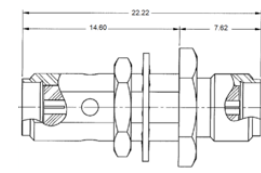


Fig. 9

Part number (Gold)	Part number (Passivated)	Fig.	Dimensions (mm)		Captive center contact	Panel drilling	Note
R125 703 000	R125 703 001	1	17.5		yes (4 indents)		male-male
R125 704 000	R125 704 001	2					male-female
R125 705 000	R125 705 001	3					female-female
R125 720 000	R125 720 001	4			yes (epoxy)	P06	Bulkhead female-female
R125 753 000	R125 753 001	5			yes	P08	Bulkhead hermetically sealed female-female
R125 771 000	R125 771 001	6					Right angle male-female
	R125 791 501	7	23.3	8.9	yes (epoxy)	P07	PUSH-ON male
	R125 792 501		24.8	11			PUSH-ON female
	R125 710 021	8			yes (4 indents)	P06	female-female square flange adapter
5909-1103-000	5909-9103-000	9					bulkhead female-female
5916-1103-603	5916-9103-603	2	17.4				male-female
5917-1103-000	5917-9103-000	3					female-female
5918-1103-000	5918-9103-000	1					male-male
5919-1503-000	5919-9503-000	6					male-female / right angle
5919-1503-001	5919-9503-001						male-male / right angle
5919-1503-003	5919-9503-003						male-male / right angle

Adapters

TEE IN SERIES ADAPTERS

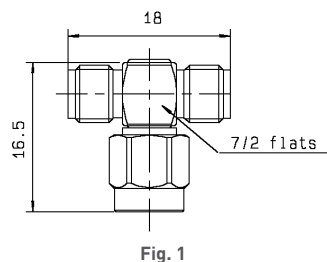


Fig. 1

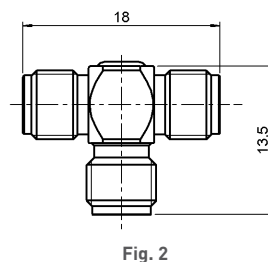


Fig. 2

Part number (Gold)	Part number (Passivated)	Fig.	Type	Captive center contact
R125 780 000	R125 780 001	1	M/F-F	yes
R125 781 000	R125 781 001	2	F/F-F	

Accessories

MALE AND FEMALE CAPS

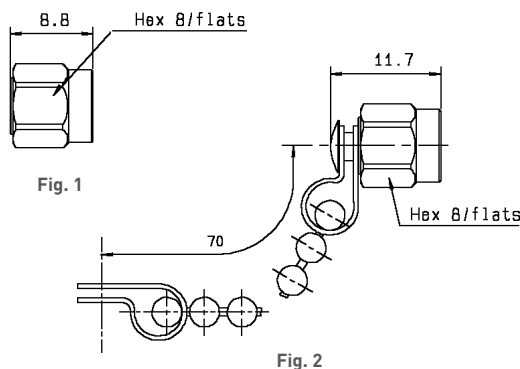


Fig. 1

Fig. 2

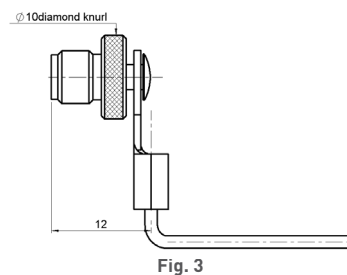


Fig. 3

Part number (Gold)	Part number (Passivated)	Fig.	Note
R125 802 000	R125 802 001	1	male
R125 812 000	R125 812 001	2	male with chain
R125 852 000	R125 852 001	1	male short circuit
R125 845 000	R125 845 001	3	female with cord

CENTER CONTACTS (To be used with universal receptacle)

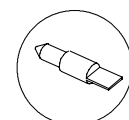
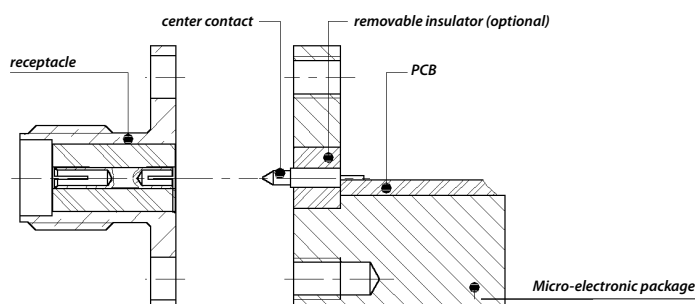
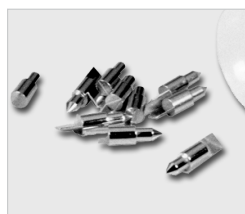


Fig. 1

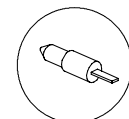


Fig. 2

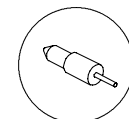
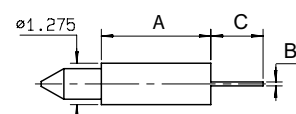


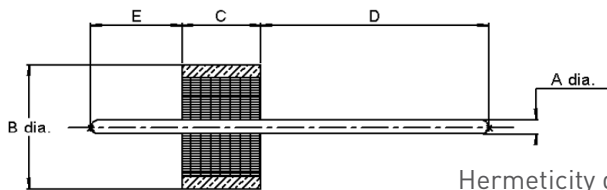
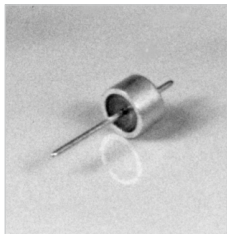
Fig. 3

Part number	Fig.	Termination	Dimensions (mm)			Packaging
			A	B	C	
R280 461 000	1	Tab	3.37	0.13	1.6	10 pieces
R280 461 200	2	Tab special	3.37	0.13 x W0.51	1.6	
R280 461 210	1	Tab	10.3	0.13	1.6	
R280 462 000	3	Cylindrical	1.77	dia 0.25	1.57	
R280 463 000	3	Cylindrical	3.37	dia 0.25	1.57	
R280 465 000	2	Tab special	0.2	0.13 x W0.60	0.9	



Glass beads

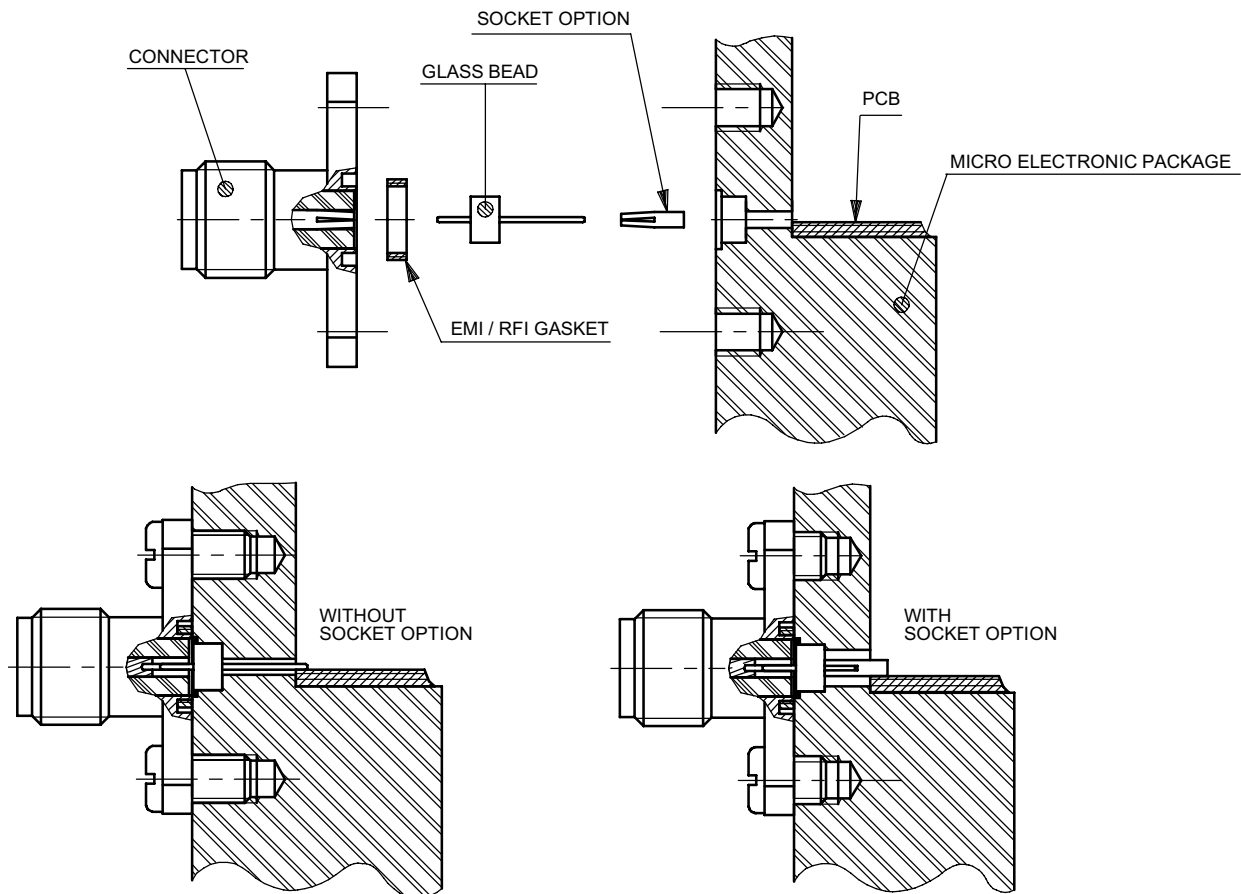
GLASS BEADS FOR HERMETIC RECEPTACLES



Hermeticity guaranteed at 10^{-8} atm.cm³/s

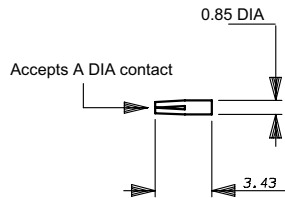
Part number	Dimensions mm (inch)					Packaging
	A	B	C	D	E	
R280 751 000	0.30 [.012]	2.52 [.099]	1.60 [.063]	4.57 [.180]	1.83 [.072]	1
R280 751 080				1.3 [.051]		100
R280 751 350				4.57 [.180]		1
R280 752 000	0.38 [.015]	2.50 [.098]	156 [.061]	1.95 [.076]	1.59 [.062]	100
R280 752 020				1.3 [.051]		
R280 755 000	0.46 [.018]	2.85 [.112]	1.60 [.063]			1
R280 755 040		2.85 [.111]		4.57 [.180]	1.83 [.072]	
R280 757 070	0.50 [.019]	4 [.157]	1.77 [.070]	1.78 [.070]	2.03 [.080]	100
R280 757 080				5.82 [.230]	1.93 [.076]	1

Go to page 17-18 for more glass beads.



Accessories for hermetic microstrip receptacles

OPTIONAL SOCKET



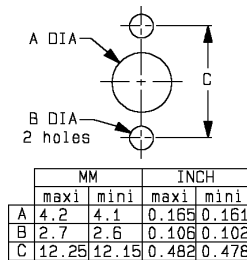
Part number	A Dia (mm)	Packaging
R280 469 000	0.30	10 pieces
R280 469 010	0.46	

Go to chapter 19-A for more socket contact options.

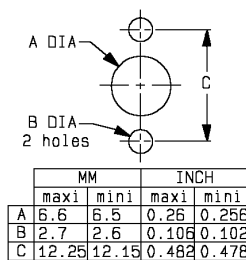
For use with glass seal.

Panel drilling

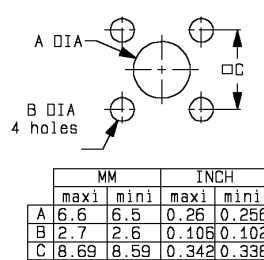
P01



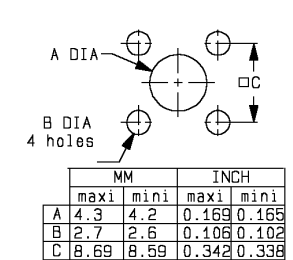
P02



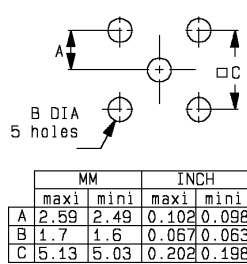
P03



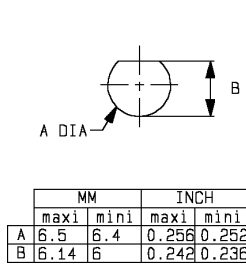
P04



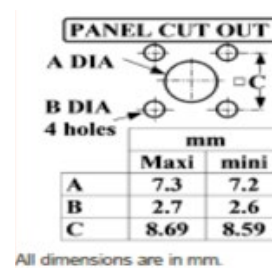
P05



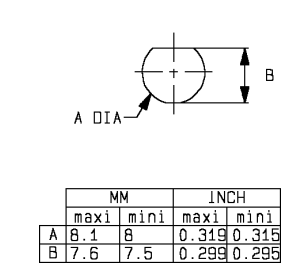
P06



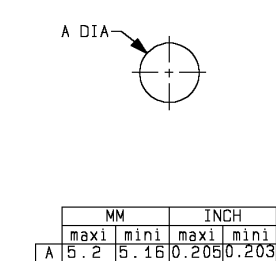
P07



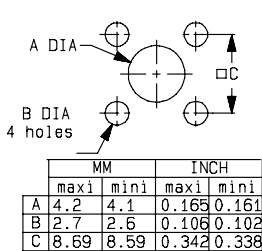
P08



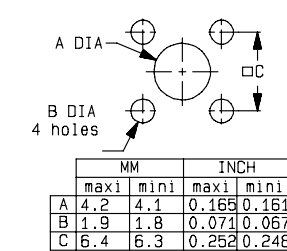
P09



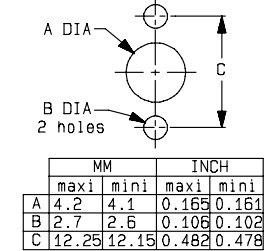
P10



P11



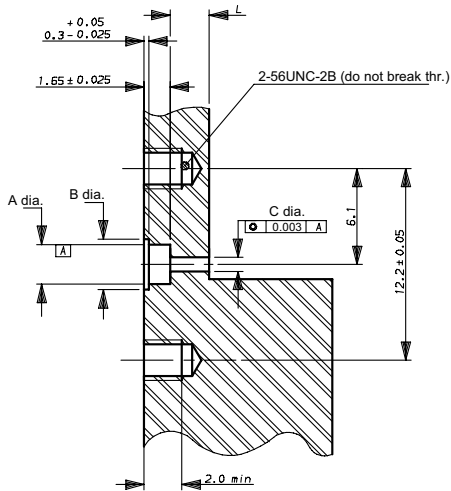
P12



Panel drilling

HERMETIC SEPARATE GLASS BEAD RECEPTACLES

P13/14

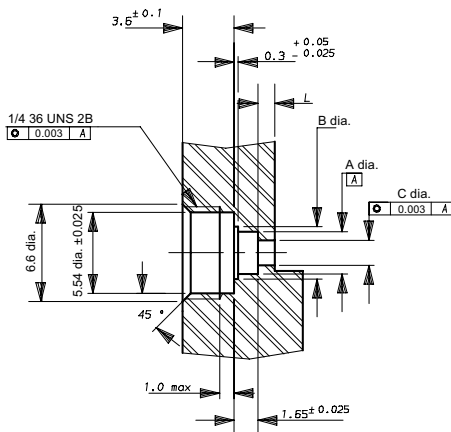


	P13	P14
A dia.	2.6±0.025	2.92±0.025
B dia.	3.23±0.025	3.55±0.025
C dia. (1)	2±0.02	
(2)	0.7±0.02	1.08±0.02
L dia. (1)	2.5±0.1	
(2)	from 1 mm to 4 mm	

(1) Using of the removable contact.

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

P15/16

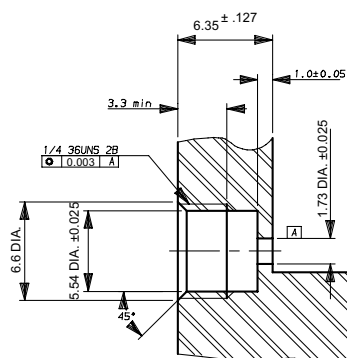


	P15	P16
A dia.	2.6±0.025	2.92±0.025
B dia.	3.23±0.025	3.55±0.025
C dia. (1)	2±0.02	
(2)	0.7±0.02	1.08±0.02
L dia. (1)	2.5±0.1	
(2)	from 1 mm to 4 mm	

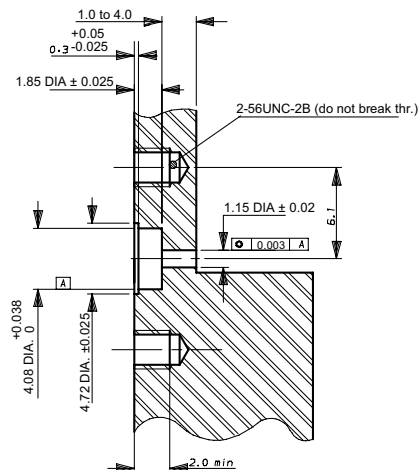
(1) Using of the removable contact.

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

P17

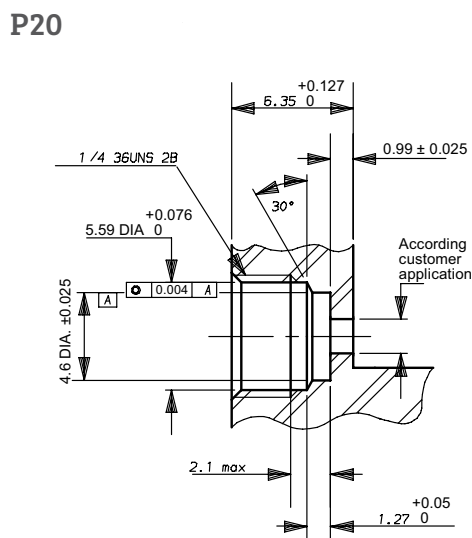
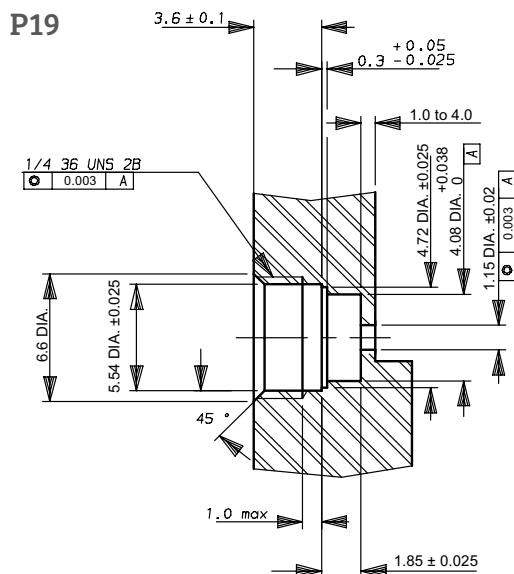


P18

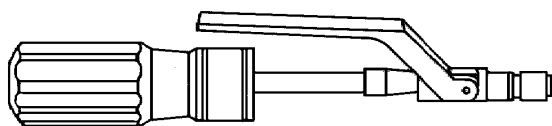


Panel drilling

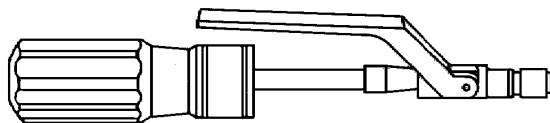
HERMETIC SEPARATE GLASS BEAD RECEPTACLES



Tooling for hermetic receptacles



Coupling torque: 190 cm N



Coupling torque: 280 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

Part number	Description
R282 341 012	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

Field replaceable hermetic microstrip receptacle information

ELECTRICAL PERFORMANCES

V.S.W.R. to 18 GHz

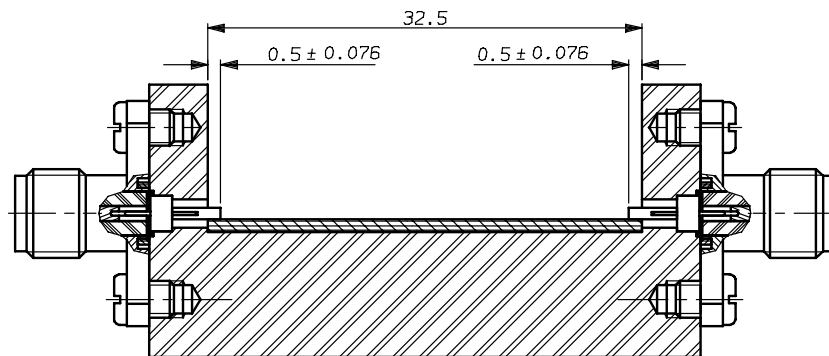
Connector only	Seal only	Connector & seal
$1.04 + 0.006F$ (GHz)	$1.02 + 0.003F$ (GHz)	$1.06 + 0.01F$ (GHz)

V.S.W.R. MEASUREMENT

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

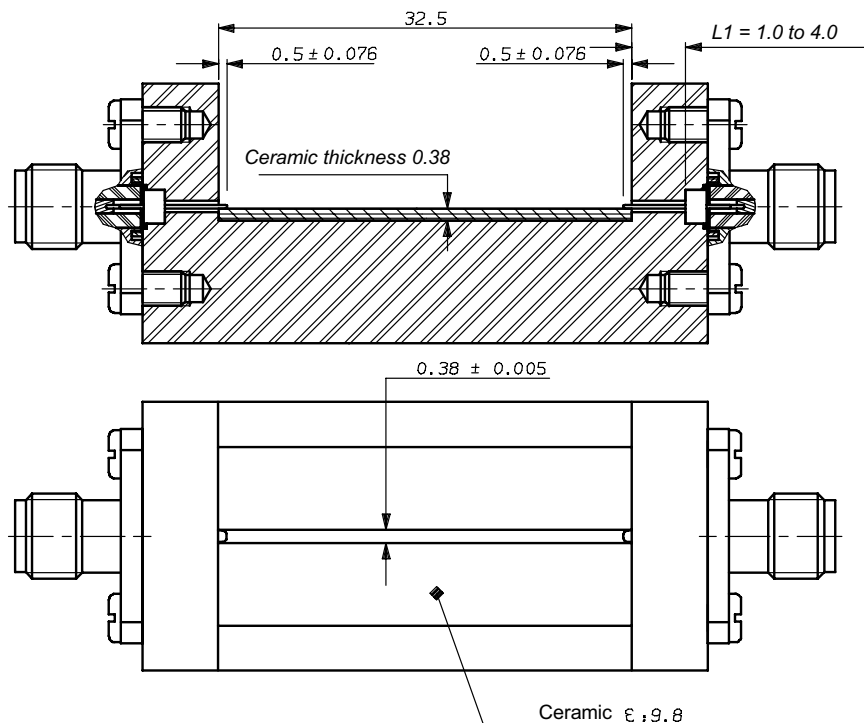
a) Measurement with auxiliary contact-assembly drawing

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

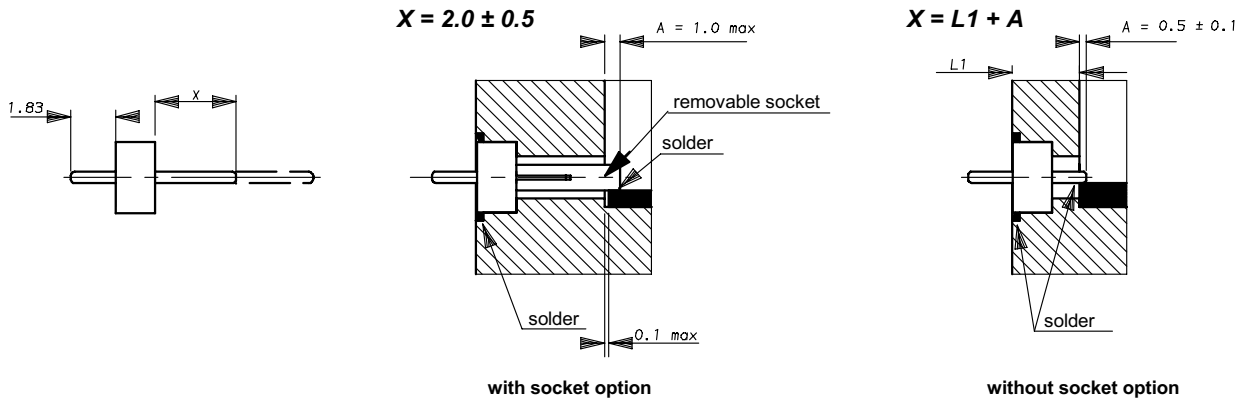
Recommended value : $L1 = 1.0$ mm



The track width on ceramic defines the circuit impedance.

Field replaceable hermetic microstrip receptacle information

GLASS BEAD AND CONNECTOR ASSEMBLY INTO THE MICRO ELECTRONIC PACKAGE



GLASS BEAD

1. Adjust X by cutting the pin if necessary
2. Introduce the glass bead into its cavity
3. Place a ring of solder in the groove around the glass bead (a 0.3 mm wire dia. of solder is recommended)
4. Solder the pin (or optional socket) on the PCB trace inside the package

Note: there is not too much welding.

IMPORTANT: For maximum RF performances, the link track/pin must be as thin as possible.

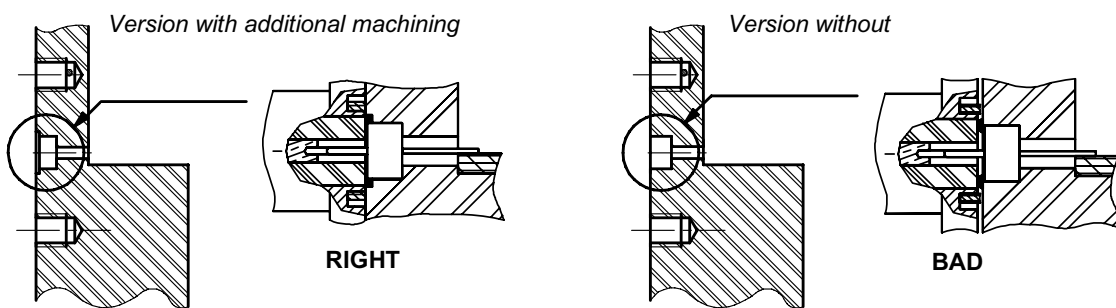
Therefore, we advise to follow the A dimension rigorously, by soldering accurately the pin or the socket directly on the trace.

CONNECTOR RECEPTACLE

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

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

GLASS BEAD MOUNTING



The Radiall panel drilling on page 8-27 recommends an additional bore or chamfer machining on the outer edge of the glass bead 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.

Introduction

Radiall Commercial SMA connectors are specially designed for applications where low installed costs are of the most importance. They are easy, fast to assemble and reliable, and offer the perfect solution for high volume applications requiring high level performance such as in civil telecommunications, data communications or test and measurement.

• Full compatibility:

Commercial SMA connectors are fully compatible (interchangeable and intermateable) with all existing MIL standardized SMA connectors. They feature the same performance level except for mechanical characteristics (life: 100 matings and coupling nut torque: 60 Ncm).

The coupling nut of Commercial SMA connectors features a special design which is different from the standard SMA coupling nut as the tightening torque is reduced.

• Wide range:

The Commercial SMA series offers a wide range of solutions which are for every standard coaxial flexible or semi-rigid cable as well as PCB models with traditional through-hole pins or solder pads for SMT applications.

• Simple snap-in axial captivation (for full crimp models):

The relative position of the center contact into the interface is mechanically guaranteed by the snapping of the insulator inner shoulder into the groove of the center contact.

This design facilitates the captivation operation in contrast to other designs, requiring two insulators to provide contact retention.

It assures constant and perfect axial positioning of the center contact into the interface.

• Space-saving size:

Due to the captivation technique, these commercial SMA connectors are shorter than multi-piece body connectors.

• Convenient 3-piece design:

- For straight models: body + center contact + outer ferrule
- For right angle models: single piece body + back cap + outer ferrule

• Fast and reliable cable attachment:

The cable connectors can be either fully crimped or soldered/crimped, offering full flexibility for high volume industrial production with standard manual or pneumatic tooling: fast and reliable

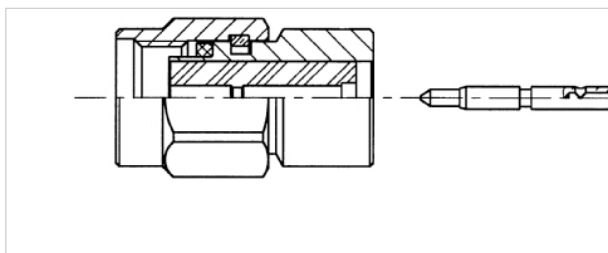
- The center contact can be either crimped or soldered
- The outer contact is attached to the cable by crimping a ferrule

• Competitive pricing:

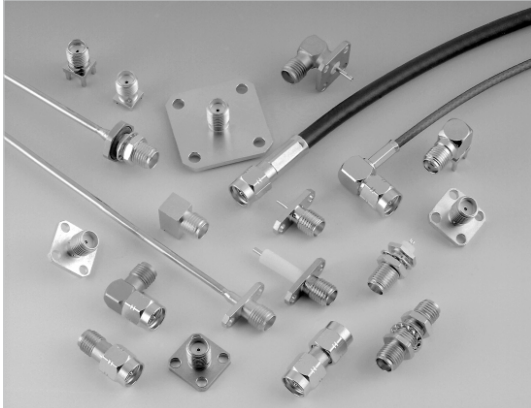
The design and materials used in the manufacturing of the Commercial SMA series allow us to offer connectors at competitive prices to suit a wide range of applications. The connector body is manufactured in brass and the surface plating is available in either gold or in BBR finish (Radiall non-magnetic bright bronze surface finish).

• Center contact captivation:

Our connectors have a captive center contact.



Introduction



50Ω

DC - 18 GHz

GENERAL

- Subminiature coaxial connectors
- Screw-on coupling
- High RF performance
- 2 plating options:
 - BBR
 - Gold

APPLICABLE STANDARDS

- MIL-C-39012
- IEC 169-1
- CECC 22110
- CECC 22111 - 801 to 808
- BS 9210 N006

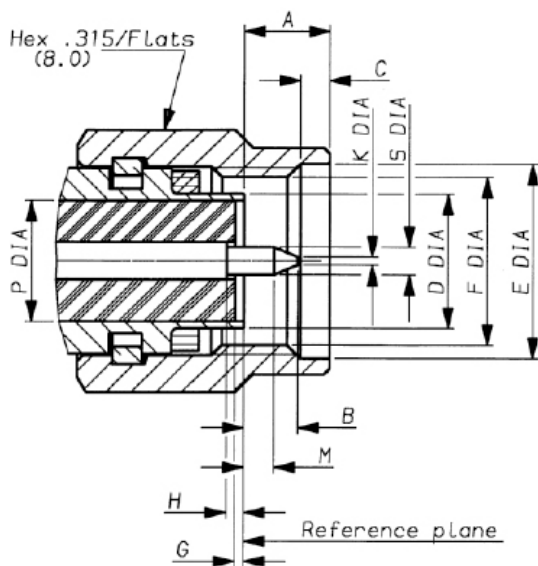
APPLICATIONS

- Telecommunications
- Aeronautics
- Measurement and Test systems
- General electronics

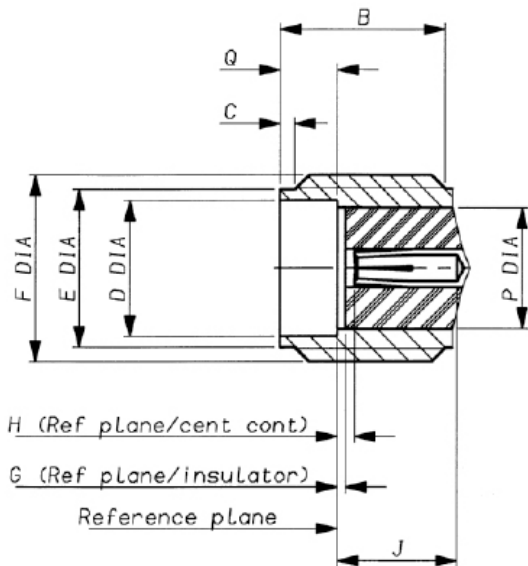
Interface

SMA-COM

PLUG



JACK



Letter	mm		inch	
	min.	max.	min.	max.
A		3.43		.135
B		2.54		.100
C	0.38	1.14	.015	.045
D DIA		4.59		
E DIA	6.35		.250	
F DIA	1/4 36 UNS 2B			
G*	0.0	-0.20	0.0	-.008
H*	0.0	-0.25	0.0	-.010
J				
K DIA		0.38		.015
M	1.27		.050	
P DIA	4.10 nom.		.161 nom.	
Q DIA				
S DIA	0.90	0.94	.035	.037

Letter	mm		inch	
	min.	max.	min.	max.
A				
B	4.31		.170	
C	0.38	1.14	.015	.045
D DIA	4.596		.181	
E DIA	5.28	5.49	.208	.216
F DIA	1/4 36 UNS 2A			
G*	0.0	-0.20	0.0	-.008
H*	0.0	-0.25	0.0	-.010
J	2.92		.115	
K				
M				
P DIA	4.10 nom.		.161 nom.	
Q	1.88	1.98	.074	.078
S DIA				

***Note:**
Means behind ref plane

Characteristics

Test / Characteristics	MIL-C-39012 paragraph	Values / Remarks
------------------------	-----------------------	------------------

GENERAL

Impedance		50Ω
Frequency range		Semi-rigid cables DC - 18 GHz
Temperature range		- 65°C + 105°C

ELECTRICAL CHARACTERISTICS

Insulation resistance	3-11	5000 MΩ mini.
Contact resistance • Outer conductor • Inner conductor	3-16	Initial 3 mΩ 2 mΩ
V.S.W.R. max up to: 18 GHz for semi-rigid cable 12.4 GHz for right angle connector (SR) 12.4 GHz for flexible cable	3-14	.085" .141" 2.6/50/S 5/50/D
• Straight Connector • Right angle connector		1.07 + .01F 1.10 + .01F 1.05 + .01F 1.10 + .01F 1.15 + .02F 1.15 + .03F 1.15 + .01F 1.15 + .02F
Dielectric withstanding voltage in VRMS	3-17	750 1000 750 1000
Working voltage in VRMS (sea level)		335 500 250 335
Working voltage in VRMS (70 000 ft)		85 125 65 85
RF testing voltage at 5 MHz in VRMS	3-23	500 670 500 670

MECHANICAL CHARACTERISTICS

Cable retention force	3-24	.085" .141" 2.6/50/S 5/50/D
		130 N 270 N 90 N 204 N
Life	3-15	100 matings
Force to engage and disengage	3-5-1	23 Ncm - 2 inch pounds
Coupling nut torque recommended		60 Ncm - 5.2 inch pounds
Coupling nut retention force	3-25	272 N min

ENVIRONMENTAL CHARACTERISTICS

Vibration	3-18	MIL STD 202, method 204, condition D,20g
Shock	3-19	MIL STD 202, method 213, condition 1,100g
Thermal shock	3-20	MIL STD 202, method 107, condition B,
Corrosion (salt spray)	3-13	MIL STD 202, method 101, condition B,
Moisture resistance	3-21	MIL STD 202, method 106
Barometric pressure	3-22	MIL STD 202, method 105, condition C
Hermetic test		Down to 10 ⁻⁶ mmHg (Torr) leakage rate < 10 ⁻⁸ atm/cm ³ /sec
Life (at high temperature)		MIL STD 202, method 108

MATERIALS AND PLATING

	Material	Plating
Bodies	Brass	BBR* or Gold plated
Center contacts	Beryllium copper (female) Brass (male)	Gold plated
Insulators	PTFE teflon	
Gaskets	Silicone rubber	

*BBR: Bright Bronze Radiall

All dimensions are given in mm.

Standard packaging: 100 pieces

Plugs

STRAIGHT PLUGS, FULL CRIMP TYPE FOR FLEXIBLE CABLE

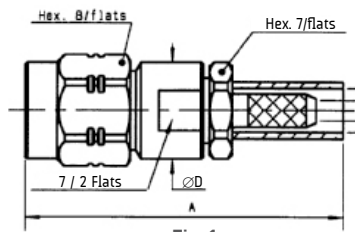


Fig. 1

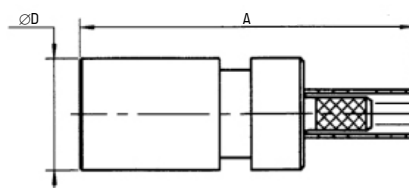


Fig. 2

Cable group	Cable group dia.	Part number (Gold)	Part number (BBR)	Fig.	Dimensions (mm)		Captive center contact	Note
					A	D		
RG178 / RG196	2/50/S	R124 069 123	R124 069 120	1	25	7.7	yes	Back nut / Solder contact
RG174 / RG316	2.6/50/S	R124 071 123	R124 071 120	2	23.4			
RD316	2.6/50/D		R124 072 220					
RG58 / RG141	5/50/S	R124 075 323	R124 075 320		26.4			
RG142 / RG223 / RG400	5/50/D	R124 076 323	R124 076 320	1	26.3	7	yes	Crimp type
AEP-195FR	LMR® 195		R124 075 210		27.15			
AEP-200FR	LMR® 200		R124 076 450		29.15			
AEP-240FR	LMR® 240		R124 076 430		33.59	12.7		
AEP-400FR	LMR® 400		R124 080 030					

STRAIGHT PLUGS, SOLDER TYPE FOR SEMI-RIGID CABLE

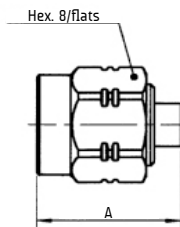


Fig. 1

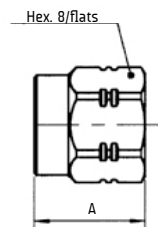


Fig. 2

Cable group	Cable group dia.	Part number (Gold)	Fig.	Dimensions A (mm)	Captive center contact
RG405	.085"	R124 052 013	1	11.1	no
RG402	.141"	R124 054 003	2	8.5	yes
		R124 055 003	1	11.2	no

Plugs and jacks

RIGHT ANGLE PLUGS

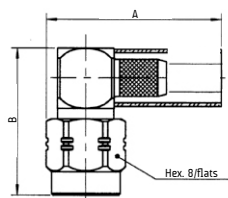


Fig. 1

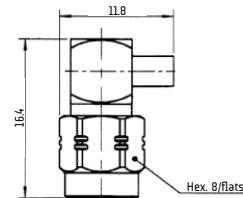


Fig. 2

Cable group	Cable group dia.	Part number (Gold)	Part number (BBR)	Fig.	Dimensions (mm)		Note
					A	B	
RG174 / RG316 / AEP-100FR	2.6/50/S & LMR® 100	R124 172 123	R124 172 120	1	18	16.35	Crimp type for flexible cable
RD316	2.6/50/D	R124 174 123	R124 174 120				
RG58 / RG141	5/50/S	R124 175 123	R124 175 120		21	19.67	Crimp type
RG142 / RG223 / RG400	5/50/D	R124 176 123	R124 176 120				
AEP-195FR	LMR® 195		R124 175 110		16.29	16.3	
AEP-200FR	LMR® 200		R124 175 200				
AEP-240FR	LMR® 240		R124 175 310	2			Solder type for semi-rigid cable
RG405	.085"	R124 153 003	R124 153 001				
RG402	.141"	R124 154 001	R124 154 001				

STRAIGHT JACKS

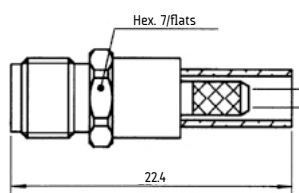


Fig. 1

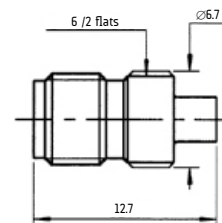
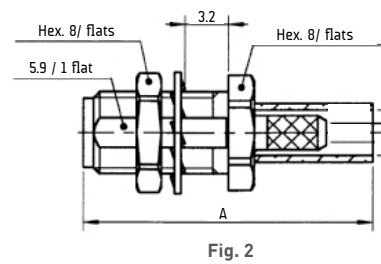
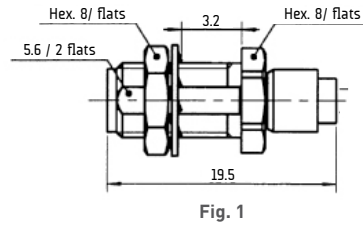


Fig. 2

Cable group	Cable group dia.	Part number (Gold)	Fig.	Captive center contact	Note
RD316	2.6/50/D	R124 233 123	1	yes	Full crimp type for flexible cable
RG174 / RG316	2.6/50/S	R124 236 123			
RG405	.085"	R124 222 003	2	no	Solder type for semi-rigid cable

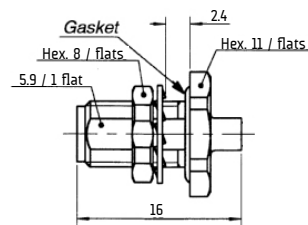
Jacks

BULKHEAD FEEDTHROUGH STRAIGHT JACKS, FULL CRIMP TYPE, FOR FLEXIBLE CABLE



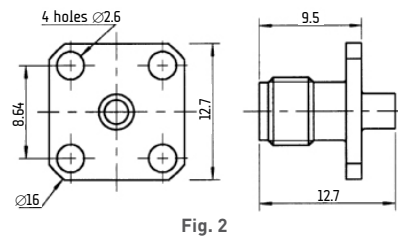
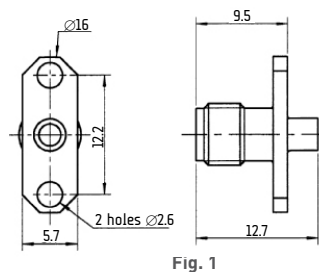
Cable group	Cable group dia.	Part number (Gold)	Part number (BBR)	Fig.	Dimensions A (mm)	Panel drilling	Captive center contact	Note
RG178 / RG196	2/50/S	R124 310 023		1		P06		Reverse crimping / Solder contact
RG174 / RG316 / AEP-100FR	2.6/50/S & LMR® 100	R124 312 123	R124 312 120	2	22.4	P05	yes	
RG 58 / RG141	5/50S		R124 314 120		25.4			
RG142 / RG223 / RG400	5/50/D		R124 315 120					Full crimp type

BULKHEAD FEEDTHROUGH STRAIGHT JACKS, SOLDER TYPE, FOR SEMI-RIGID CABLE - PANEL SEAL



Cable group	Cable group dia.	Part number (Gold)	Panel drilling	Captive center contact
RG405	.085"	R124 326 003	P05	no
RG402	.141"	R124 325 003		

FLANGE JACKS, SOLDER TYPE FOR SEMI-RIGID CABLE



Cable group	Cable group dia.	Part number (Gold)	Fig.	Panel drilling	Captive center contact
RG405	.085"	R124 252 003	1	P04	no
		R124 256 003	2	P02	
RG402	.141"	R124 255 003			

SQUARE FLANGE FEMALE RECEPTACLES

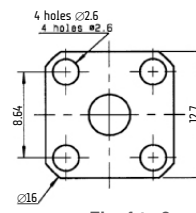
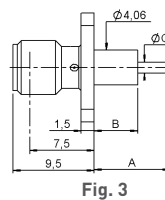
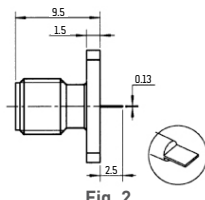


Fig. 1 to 3

NARROW FLANGE FEMALE RECEPTACLES

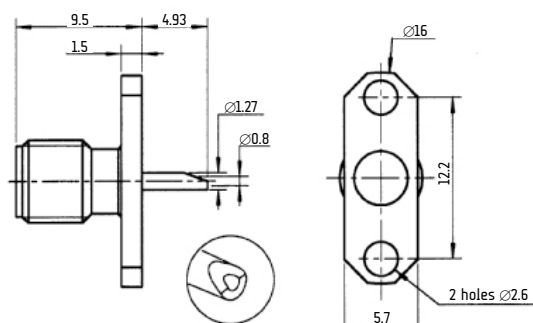


Fig. 1

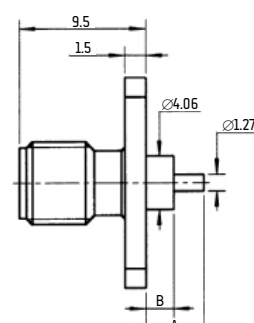
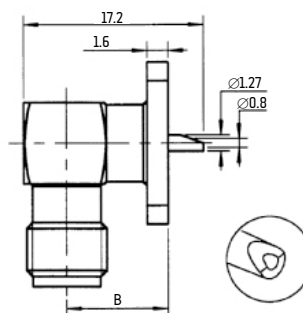
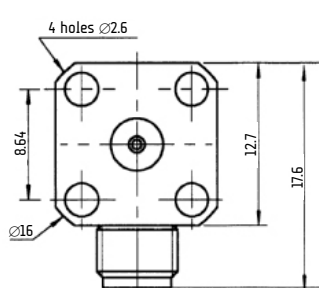


Fig. 2

RIGHT ANGLE SQUARE FLANGE FEMALE RECEPTACLES



Visit www.radiall.com and enter the part number.

Switches

STRAIGHT FEMALE PCB RECEPTACLES AND SWITCHES

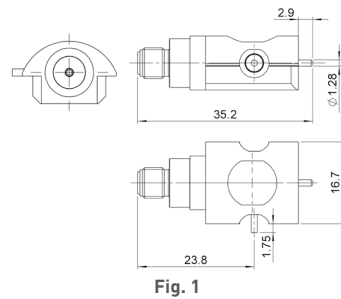
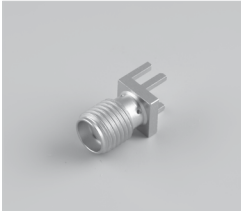


Fig. 1

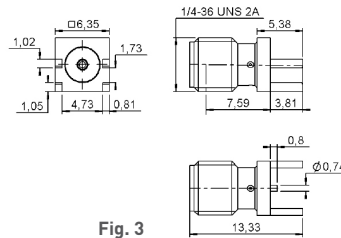


Fig. 3

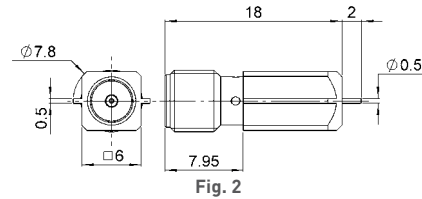


Fig. 2

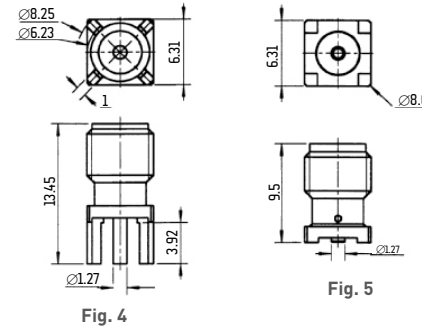


Fig. 4

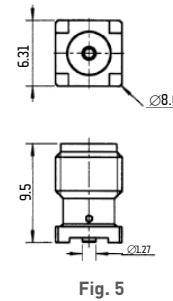


Fig. 5

Part number	Fig.	Panel drilling	Assembly instructions	Finish	Note
R124 422 001	1		M03	Gold	Switch edge card SMT - Right type - packaging in Reel 110 pieces
R124 423 033	2		M02		SMT edge card type - packaging: unit
R124 423 223	3				
R124 426 120	4	P03		BBR	
R124 426 123	5		M01	Gold	Surface mount / Bulkhead 100 pieces
R124 427 000					Surface mount / Tape & Reel 100 pieces
R124 427 800					

RIGHT ANGLE FEMALE PCB RECEPTACLES

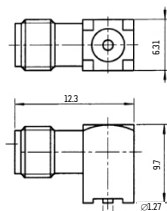
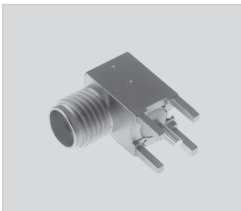


Fig. 1

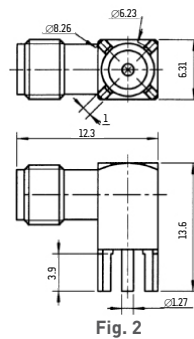


Fig. 2

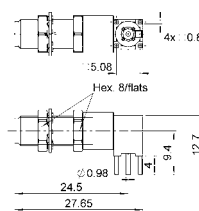


Fig. 3

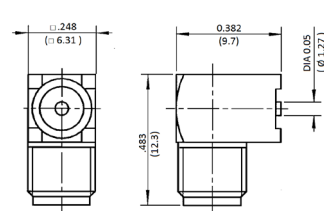
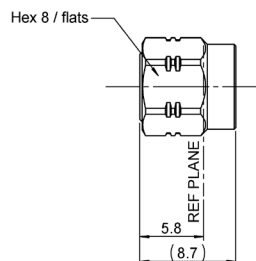


Fig. 4

Part number	Fig.	Panel drilling	Assembly instructions	Finish	Note
R124 667 143	3	P07		Gold	Packaging: tray 60 pieces
R124 680 120	2	P03		BBR	
R124 680 123					
R124 681 000	1		M01	Gold	Surface mount / Bulkhead 100 pieces
R124 681 800	4		M04		Packaging: Tape & Reel 100 pieces

Receptacles

MALE CAP



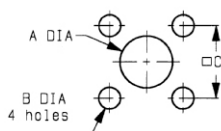
Part number	Finish	Note
R124 802 108	Tin	No chain

ADAPTERS

For in series adapters, please see standard SMA.

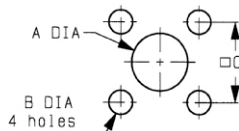
Panel drilling

P01



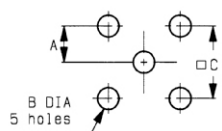
MM		INCH	
maxi	mini	maxi	mini
A 4.2	4.1	0.165	0.161
B 2.7	2.6	0.106	0.102
C 8.69	8.59	0.342	0.338

P02



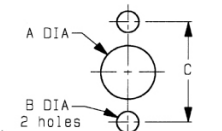
MM		INCH	
maxi	mini	maxi	mini
A 6.6	6.5	0.26	0.256
B 2.7	2.6	0.106	0.102
C 8.69	8.59	0.342	0.338

P03



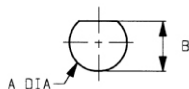
MM		INCH	
maxi	mini	maxi	mini
A 2.59	2.49	0.102	0.098
B 1.7	1.6	0.067	0.063
C 5.13	5.03	0.202	0.198

P04



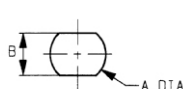
MM		INCH	
maxi	mini	maxi	mini
A 4.2	4.1	0.165	0.161
B 2.7	2.6	0.106	0.102
C 12.25	12.15	0.482	0.478

P05



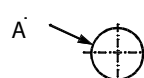
MM		INCH	
maxi	mini	maxi	mini
A 6.5	6.4	0.256	0.252
B 6.15	6	0.242	0.236

P06



MM		INCH	
maxi	mini	maxi	mini
A 6.5	6.4	0.256	0.252
B 5.8	5.7	0.228	0.224

P07



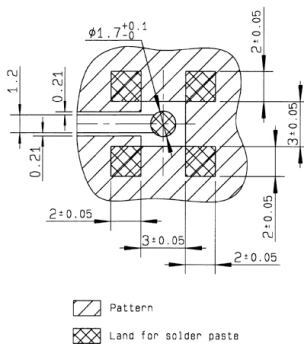
mm		
	Maxi	mini
A	6.40	6.35

Assembly instructions

M01

Part number	
R124 427 000 R124 427 800	R124 681 000

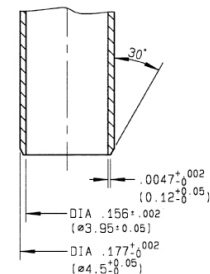
SOLDERING PATTERN



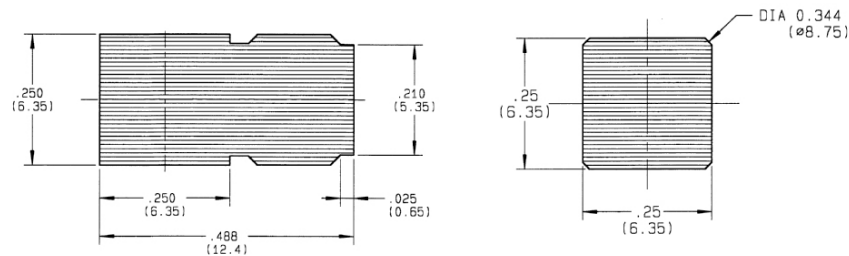
COPLANAR LINE

- Pattern and signal are on the same side
- Thickness of PCB: 1.6 mm
- The PCB material is made of epoxy resin of glass fabrics bacs (Er = 4.8)
- The solder resist should be printed except for the land pattern on the PCB

ASPIRATION PORT

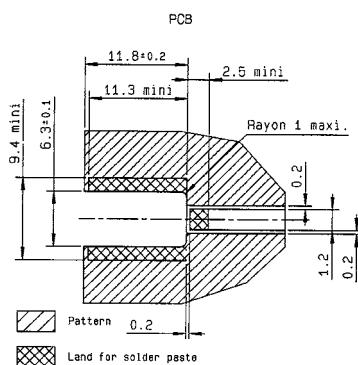


VIDEO SHADOWS



M02

SOLDERING PATTERN

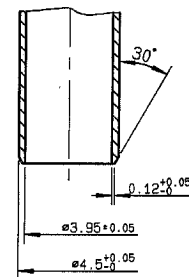


Part number
R124 423 033

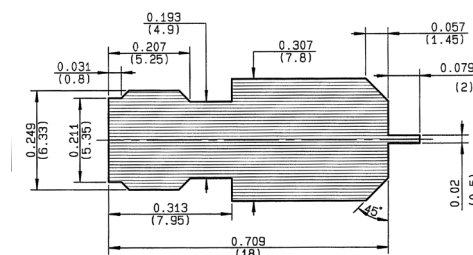
COPLANAR LINE

- Pattern and signal are on the same side
- Thickness of PCB: .063 (1.6 mm)
- The PCB material is made of epoxy resin of glass fabrics bacs. (Er = 4.8)
- The solder resist should be printed except for the land pattern on the PCB

ASPIRATION PORT



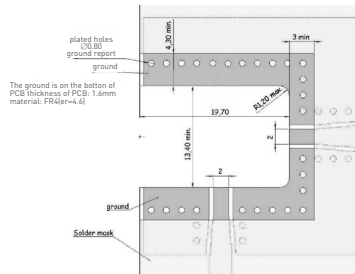
VIDEO SHADOW



Assembly instructions

M03

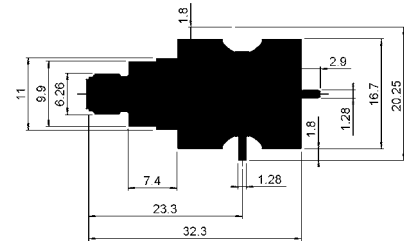
PCB FOR SMA SWITCH



Part number

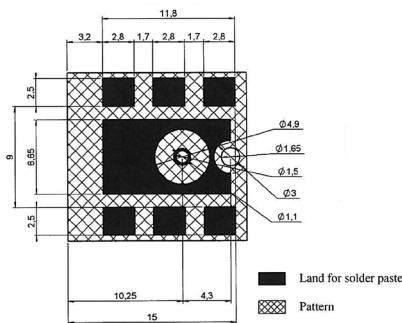
R124 422 001

VIDEO SHADOW



M04

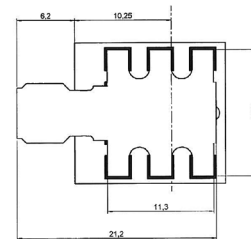
SOLDERING PATTERN



Part number

R124 681 800

VIDEO SHADOW



COPLANAR LINE

- Pattern and signal are on the same side
- Thickness of PCB: .063 (1.6 mm)
- The PCB material is made of epoxy resin of glass fabrics bacs. (Er = 4.8)
- The solder resist should be printed except for the land pattern on the PCB