CONNECTORS, RF, COAXIAL, BLIND-MATE SLIDE-ON,

TYPE SMP, 50 OHMS (MALE CONTACT)

ESCC Detail Specification No. 3402/024

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DCR No.	CHANGE DESCRIPTION

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1. GENERAL

1.1 SCOPE

This specification details the ratings, physical and electrical characteristics, test and inspection data for Connectors, RF, Coaxial, Blind-Mate Slide-On, Type SMP, 50 Ohms (Male Contact). It shall be read in conjunction with ESCC Generic Specification No. 3402, the requirements of which are supplemented herein.

1.2 COMPONENT TYPE VARIANTS AND RANGE OF COMPONENTS

A list of the connector type variants specified herein, which are covered by this specification, are scheduled in Table 1(a). The various physical, electrical, mechanical and other pertinent characteristics applicable to each type variant are given in Figure 2(b) at the end of this specification.

1.3 MAXIMUM RATINGS

The maximum ratings, which shall not be exceeded at any time during use or storage, applicable to the connectors specified herein, are scheduled in Table 1(b).

1.4 PARAMETER DERATING INFORMATION

The derating information applicable to the connectors specified herein is shown in Figure 1.

1.5 PHYSICAL DIMENSIONS

The physical dimensions of the connectors specified herein are shown in Figures 2(a) and 2(b).

2. APPLICABLE DOCUMENTS

The following documents form part of this specification and shall be read in conjunction with it:

(a) ESCC Generic Specification No. 3402, Connectors, RF, Coaxial.

3. TERMS, DEFINITIONS, ABBREVIATIONS, SYMBOLS AND UNITS

For the purpose of this specification, the terms, definitions, abbreviations, symbols and units specified in ESCC Basic specification No. 21300 shall apply.

TABLE 1(a) – COMPONENT TYPE VARIANTS AND RANGE OF COMPONENTS

Variant Number	Description	Frequency Range	Weight Max (g)
01	SMP Straight Receptacle, PCB, Limited Detent	DC to 10GHz	0.5
02	SMP Straight Receptacle, PCB, Limited Detent	DC to 26.5GHz	0.5
03	SMP Straight Receptacle, Thru-hole, Limited Detent	DC to 10GHz	0.3
04	SMP Straight Receptacle, PCB, Limited Detent	DC to 40GHz	0.41
05	SMP Straight Receptacle, PCB, Limited Detent	DC to 26.5GHz	0.3
06	SMP Straight Receptacle, PCB, Limited Detent	DC to 26.5GHz	0.77
07	SMP Straight Receptacle, PCB, Limited Detent	DC to 18GHz	0.29
08	SMP Straight Receptacle, PCB, Limited Detent	DC to 26.5GHz	0.52
09	SMP Straight Receptacle, PCB, Limited Detent	DC to 12GHz	0.51
10	SMP Straight Receptacle, PCB, Smooth Bore	DC to 26.5GHz	0.3
11	SMP Straight Receptacle, PCB, Smooth Bore	DC to 26.5GHz	0.47
12	SMP Straight Receptacle, PCB, Smooth Bore	DC to 26.5GHz	0.77
13	SMP Straight Receptacle, PCB, Catcher's Mit	DC to 26.5GHz	0.7
14	SMP Straight Receptacle, PCB, Smooth Bore	DC to 10GHz	0.77
15	SMP Straight Receptacle, PCB, Limited Detent	DC to 26.5GHz	0.35
16	SMP Straight Receptacle, Press-in, Limited Detent	DC to 18GHz	1.7
17	SMP Right Angle Receptacle, PCB, Limited Detent	DC to 18GHz	0.4
18	SMP Right Angle Receptacle, PCB, Limited Detent	DC to 6GHz	1
19	SMP Right Angle Receptacle, PCB, Limited Detent	DC to 6GHz	1.85
20	SMP Right Angle Receptacle, PCB, Limited Detent	DC to 26.5GHz	0.4
21	SMP Right Angle Receptacle, PCB, Limited Detent	DC to 40GHz	0.4
22	SMP Right Angle Receptacle, PCB, Limited Detent	DC to 26.5GHz	0.4
23	SMP Straight Receptacle, PCB, Smooth Bore	DC to 26.5GHz	0.4
24	SMP Straight Receptacle, PCB, Smooth Bore	DC to 40GHz	0.4
25	SMP Straight Receptacle, PCB, Full Detent	DC to 26.5GHz	0.4
26	SMP Panel Receptacle, Limited Detent	DC to 18GHz	1.8
27	SMP Bulkhead Receptacle, Hermetic, Full Detent	DC to 40GHz	0.09
28	SMP Bulkhead Receptacle, Limited Detent	DC to 40GHz	0.4
29	SMP Bulkhead Receptacle, Limited Detent	DC to 26.5GHz	0.55
30	SMP Bulkhead Receptacle, Smooth Bore	DC to 26.5GHz	0.5
31	SMP Bulkhead Receptacle, Limited Detent	DC to 18GHz	1.4
32	SMP Bulkhead Receptacle, Limited Detent, for Semi-rigid Cables ∅2.16mm	DC to 40GHz	1.41
33	SMP Bulkhead Receptacle, Limited Detent	DC to 18GHz	1.1
34	SMP Bulkhead Receptacle, Limited Detent	DC to 26.5GHz	1.2
35	SMP Bulkhead Receptacle, Smooth Bore, for Semi-rigid Cables ∅2.16mm	DC to 40GHz	1.6

TABLE 1(a) (CONTINUED) – ELECTRICAL CHARACTERISTICS

Variant Number	Return Loss (dB)	Insertion Loss max (dB)	RF Leakage at 3GHz (dB)	Voltage Proof		Corona Level max (Vrms)	Contact Resistance		Insulation Resistance min (MΩ)
				Voltage (Vrms)	Leakage Current max (mA)		Centre Contact max (mΩ)	Shell max (mΩ)	
01	DC to 5GHz: ≥ 26 5 to 10GHz: ≥ 20	0.05√f(GHz)	N/A	500	2	N/A	6	2	5000
02	DC to 6GHz: ≥ 29 6 to 12GHz: ≥ 23 12 to 18GHz: ≥ 18 18 to 26.5GHz: ≥ 10	0.05√f(GHz)	N/A	500	2	N/A	6	2	5000
03	DC to 5GHz: ≥ 26 5 to 10GHz: ≥ 20	0.05√f(GHz)	N/A	500	2	N/A	6	2	5000
04	DC to 12GHz: ≥ 26 12 to 40GHz: ≥ 17	0.05√f(GHz)	N/A	500	2	N/A	6	2	5000
05	DC to 6GHz: ≥ 29 6 to 12GHz: ≥ 23 12 to 18GHz: ≥ 18 18 to 26.5GHz: ≥ 10	0.05√f(GHz)	N/A	500	2	N/A	6	2	5000
06	DC to 6GHz: ≥ 29 6 to 12GHz: ≥ 23 12 to 18GHz: ≥ 18 18 to 26.5GHz: ≥ 10	0.05√f(GHz)	N/A	500	2	N/A	6	2	5000
07	DC to 6GHz: ≥ 26 6 to 12GHz: ≥ 22 12 to 18GHz: ≥ 15	0.05√f(GHz)	N/A	500	2	N/A	6	2	5000
08	DC to 6GHz: ≥ 29 6 to 12GHz: ≥ 23 12 to 18GHz: ≥ 18 18 to 26.5GHz: ≥ 10	0.05√f(GHz)	N/A	500	2	N/A	6	2	5000
09	DC to 2GHz: ≥ 26 2 to 12GHz: ≥ 18	0.05√f(GHz)	N/A	500	2	N/A	6	2	5000
10	DC to 6GHz: ≥ 29 6 to 12GHz: ≥ 23 12 to 18GHz: ≥ 18 18 to 26.5GHz: ≥ 10	0.05√f(GHz)	N/A	500	2	N/A	6	2	5000
11	DC to 6GHz: ≥29 6 to 12GHz: ≥23 12 to 18GHz: ≥18 18 to 26.5GHz: ≥10	0.05√f(GHz)	N/A	500	2	N/A	6	2	5000
12	DC to 6GHz: ≥29 6 to 12GHz: ≥23 12 to 18GHz: ≥18 18 to 26.5GHz: ≥10	0.05√f(GHz)	N/A	500	2	N/A	6	2	5000
13	DC to 6GHz: ≥ 29 6 to 12GHz: ≥ 23 12 to 18GHz: ≥ 18 18 to 26.5GHz: ≥ 10	0.05√f(GHz)	N/A	500	2	N/A	6	2	5000
14	DC to 5GHz: ≥ 26 5 to 10GHz: ≥ 20	0.05√f(GHz)	N/A	500	2	N/A	6	2	5000

Variant Number	Return Loss (dB)	Insertion Loss max (dB)	RF Leakage at 3GHz (dB)	Voltage Proof		Corona Level max (Vrms)	Contact Resistance		Insulation Resistance min (MΩ)
				Voltage (Vrms)	Leakage Current max (mA)		Centre Contact max (mΩ)	Shell max (mΩ)	
15	DC to 6GHz: ≥ 26 6 to 12GHz: ≥ 20 12 to 15GHz: ≥ 18 15 to 26.5GHz: ≥ 12	0.05√f(GHz)	N/A	500	2	N/A	6	2	5000
16	DC to 2GHz: ≥ 29 2 to 6GHz: ≥ 20 6 to 18GHz: ≥ 15	0.05√f(GHz)	-80	500	2	N/A	6	2	5000
17	DC to 6GHz: ≥ 29 6 to 12GHz: ≥ 23 12 to 18GHz: ≥ 15	0.05√f(GHz)	N/A	500	2	N/A	6	2	5000
18	DC to 2GHz: ≥ 26 2 to 6GHz: ≥ 17	0.05√f(GHz)	N/A	500	2	N/A	6	2	5000
19	DC to 6GHz: ≥ 21	0.05√f(GHz)	N/A	500	2	N/A	6	2	5000
20	DC to 6GHz: ≥ 30 6 to 18GHz: ≥ 22 18 to 26.5GHz: ≥ 17	0.05√f(GHz)	N/A	500	2	N/A	6	2	5000
21	DC to 6GHz: ≥ 29 6 to 12GHz: ≥ 23 12 to 26.5GHz: ≥ 18 26.5 to 40GHz: ≥ 15	0.05√f(GHz)	N/A	500	2	N/A	6	2	5000
22	DC to 6GHz: ≥ 30 6 to 18GHz: ≥ 22 18 to 26.5GHz: ≥ 17	0.05√f(GHz)	N/A	500	2	N/A	6	2	5000
23	DC to 6GHz: ≥ 30 6 to 18GHz: ≥ 22 18 to 26.5GHz: ≥ 17	0.05√f(GHz)	N/A	500	2	N/A	6	2	5000
24	DC to 6GHz: ≥ 29 6 to 12GHz: ≥ 23 12 to 26.5GHz: ≥ 18 26.5 to 40GHz: ≥ 15	0.05√f(GHz)	N/A	500	2	N/A	6	2	5000
25	DC to 6GHz: ≥ 30 6 to 18GHz: ≥ 22 18 to 26.5GHz: ≥ 17	0.05√f(GHz)	N/A	500	2	N/A	6	2	5000
26	DC to 6GHz: ≥ 26 6 to 12GHz: ≥ 23 12 to 18GHz: ≥ 18	0.05√f(GHz)	-80	500	2	N/A	6	2	5000
27	DC to 6GHz: ≥ 30 6 to 18GHz: ≥ 23 18 to 40GHz: ≥ 17	0.05√f(GHz)	N/A	500	2	N/A	6	2	5000
28	DC to 6GHz: ≥ 29 6 to 12GHz: ≥ 23 12 to 26.5GHz: ≥ 18 26.5 to 40GHz: ≥ 15	0.05√f(GHz)	-80	500	2	N/A	6	2	5000
29	DC to 6GHz: ≥ 29 6 to 12GHz: ≥ 23 12 to 26.5GHz: ≥ 18	0.05√f(GHz)	-80	500	2	N/A	6	2	5000

Variant Number	Return Loss (dB)	Insertion Loss max (dB)	RF Leakage at 3GHz (dB)	Voltage Proof		Corona Level max (Vrms)	Contact Resistance		Insulation Resistance min (MΩ)
				Voltage (Vrms)	Leakage Current max (mA)		Centre Contact max (mΩ)	Shell max (mΩ)	
30	DC to 6GHz: ≥ 29 6 to 12GHz: ≥ 23 12 to 26.5GHz: ≥ 18	0.05√f(GHz)	-80	500	2	N/A	6	2	5000
31	DC to 6GHz: ≥ 26 6 to 12GHz: ≥ 20 12 to 18GHz: ≥ 15	0.05√f(GHz)	-80	500	2	N/A	6	2	5000
32	DC to 8GHz: ≥ 30 8 to 16GHz: ≥ 22 16 to 40GHz: ≥ 18	0.05√f(GHz)	-80	500	2	190	6	2	5000
33	DC to 6GHz: ≥ 26 6 to 12GHz: ≥ 20 12 to 18GHz: ≥ 15	0.05√f(GHz)	-80	500	2	N/A	6	2	5000
34	DC to 6GHz: ≥ 26 6 to 12GHz: ≥ 20 12 to 26.5GHz: ≥ 15	0.05√f(GHz)	-80	500	2	N/A	6	2	5000
35	DC to 8GHz: ≥ 30 8 to 16GHz: ≥ 22 16 to 40GHz: ≥ 18	0.05√f(GHz)	-80	500	2	190	6	2	5000

TABLE 1(a) (CONTINUED) – MECHANICAL AND OTHER CHARACTERISTICS

Variant Number	Centre Contact Retention Force (axial) min (N)	Cable Retention Force min (N)	Cable Retention Torque min (Ncm)	Cables Used	Residual Magnetism max (Gamma)	Hermeticity max (atm.cm³/s)	Leakage Applicability	Soldering Proof Applicability
01	7	N/A	N/A	N/A	20	N/A	N/A	Applicable
02	7	N/A	N/A	N/A	20	N/A	N/A	Applicable
03	7	N/A	N/A	N/A	N/A	N/A	N/A	Applicable
04	7	N/A	N/A	N/A	20	N/A	N/A	Applicable
05	7	N/A	N/A	N/A	20	N/A	N/A	Applicable
06	7	N/A	N/A	N/A	20	N/A	N/A	Applicable
07	7	N/A	N/A	N/A	20	N/A	N/A	Applicable
08	7	N/A	N/A	N/A	20	N/A	N/A	Applicable
09	7	N/A	N/A	N/A	20	N/A	N/A	Applicable
10	7	N/A	N/A	N/A	20	N/A	N/A	Applicable
11	7	N/A	N/A	N/A	20	N/A	N/A	Applicable
12	7	N/A	N/A	N/A	20	N/A	N/A	Applicable
13	7	N/A	N/A	N/A	20	N/A	N/A	Applicable
14	7	N/A	N/A	N/A	20	N/A	N/A	Applicable
15	7	N/A	N/A	N/A	20	N/A	N/A	Applicable
16	7	N/A	N/A	N/A	20	N/A	N/A	Applicable
17	7	N/A	N/A	N/A	20	N/A	N/A	Applicable
18	7	N/A	N/A	N/A	20	N/A	N/A	Applicable
19	7	N/A	N/A	N/A	20	N/A	N/A	Applicable
20	7	N/A	N/A	N/A	20	N/A	N/A	Applicable
21	7	N/A	N/A	N/A	20	N/A	N/A	Applicable
22	7	N/A	N/A	N/A	20	N/A	N/A	Applicable
23	7	N/A	N/A	N/A	20	N/A	N/A	Applicable
24	7	N/A	N/A	N/A	20	N/A	N/A	Applicable
25	7	N/A	N/A	N/A	20	N/A	N/A	Applicable
26	7	N/A	N/A	N/A	20	N/A	N/A	Applicable
27	7	N/A	N/A	N/A	20	1×10^{-8}	N/A	Applicable
28	7	N/A	N/A	N/A	20	N/A	N/A	Applicable
29	7	N/A	N/A	N/A	20	N/A	N/A	Applicable
30	7	N/A	N/A	N/A	20	N/A	N/A	Applicable
31	7	N/A	N/A	N/A	20	N/A	N/A	Applicable
32	N/A	200	11.5	RG 405/U UT 85-M17	20	N/A	N/A	Applicable
33	7	N/A	N/A	N/A	20	N/A	N/A	Applicable
34	7	N/A	N/A	N/A	20	N/A	N/A	Applicable
35	N/A	200	11.5	RG 405/U UT 85-M17	20	N/A	N/A	Applicable

TABLE 1(b) – MAXIMUM RATINGS

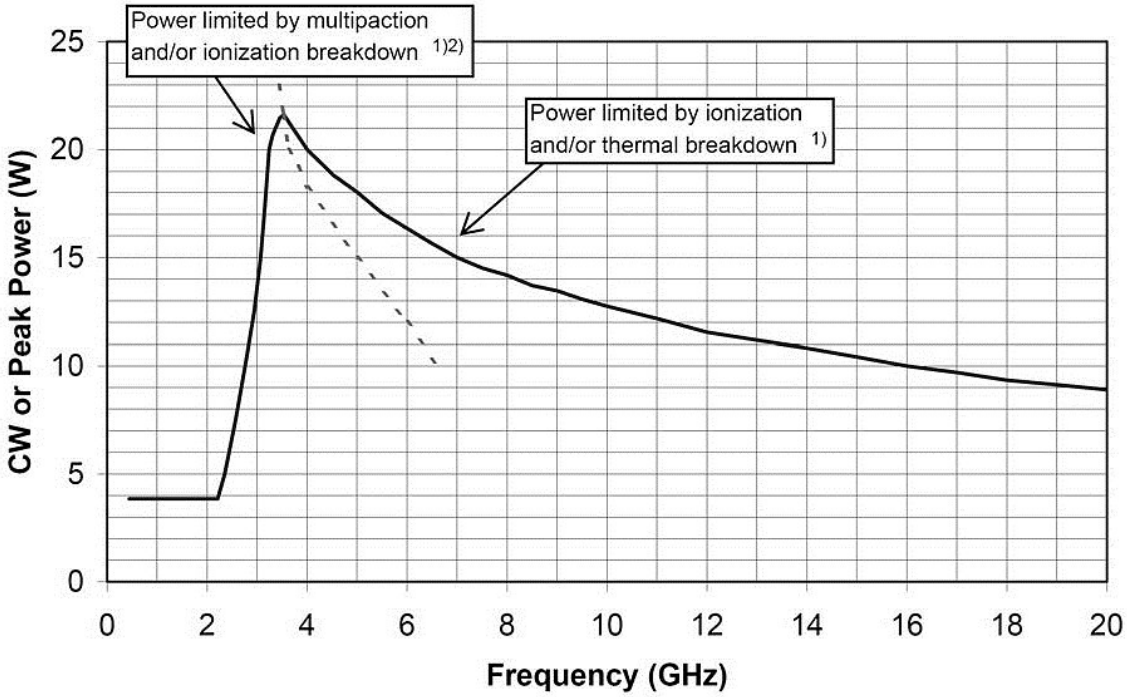
No.	Characteristics	Symbols	Maximum Ratings	Units	Remarks
1	Power	P	21.5	W	See Note 1
2	DC Power	P_{DC}	1000	W	$T_{amb} \leq +25°C$ See Figure 1(b)
3	Impedance	Z	50	Ω	Nominal
4	Frequency Range	f	See Figure 2(b)	GHz	-
5	Operating Voltage	V_{op}	335	Vrms	-
6	Operating Temperature Range	T_{op}	-65 to +155	°C	T_{amb}
7	Storage Temperature Range	T_{stg}	-65 to +155	°C	-

NOTES:

1. Maximum Power (CW or peak) varies with frequency and it is limited by multipaction, ionization breakdown and thermal breakdown as shown in Figure 1(a). The maximum operating frequency is given in Figure 2(b).

FIGURE 1 – PARAMETER DERATING INFORMATION

Figure 1(a) – Maximum Power Handling in Space Vacuum, +25°C



1. Load VSWR is better than 1.30:1.
2. The part of the curve limited by multipaction takes into account a 6dB margin as recommended by ESA.

Figure 1(b) – Maximum DC Power versus Temperature

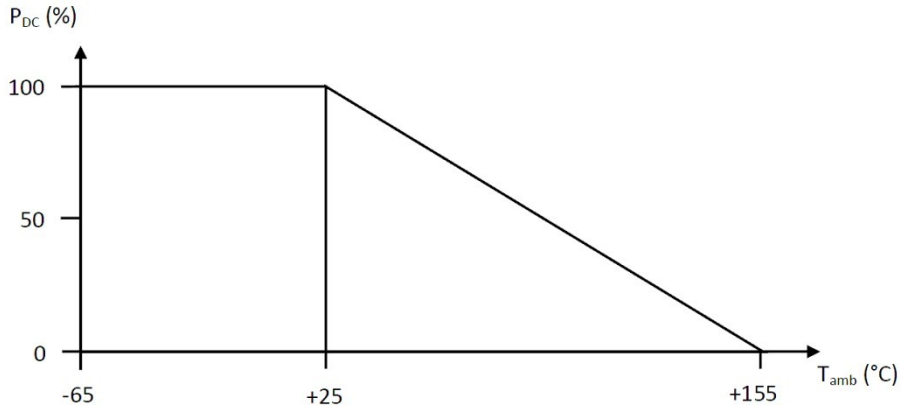
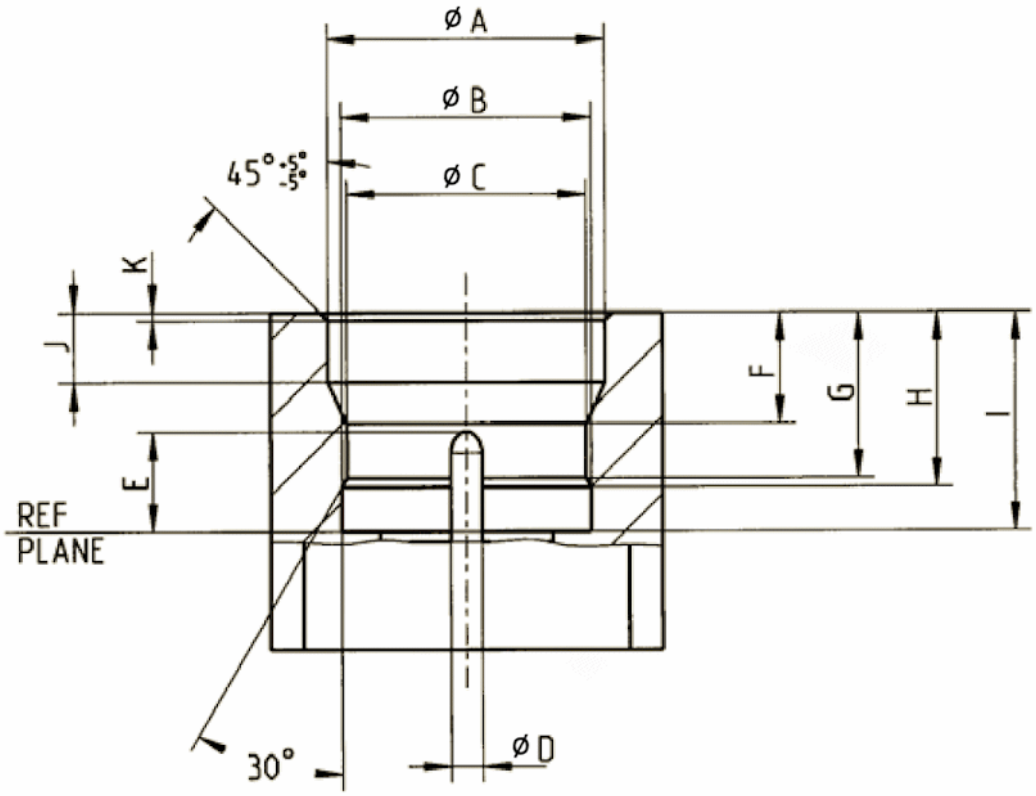


FIGURE 2 – PHYSICAL DIMENSIONS

FIGURE 2(a) – INTERFACE DIMENSIONS

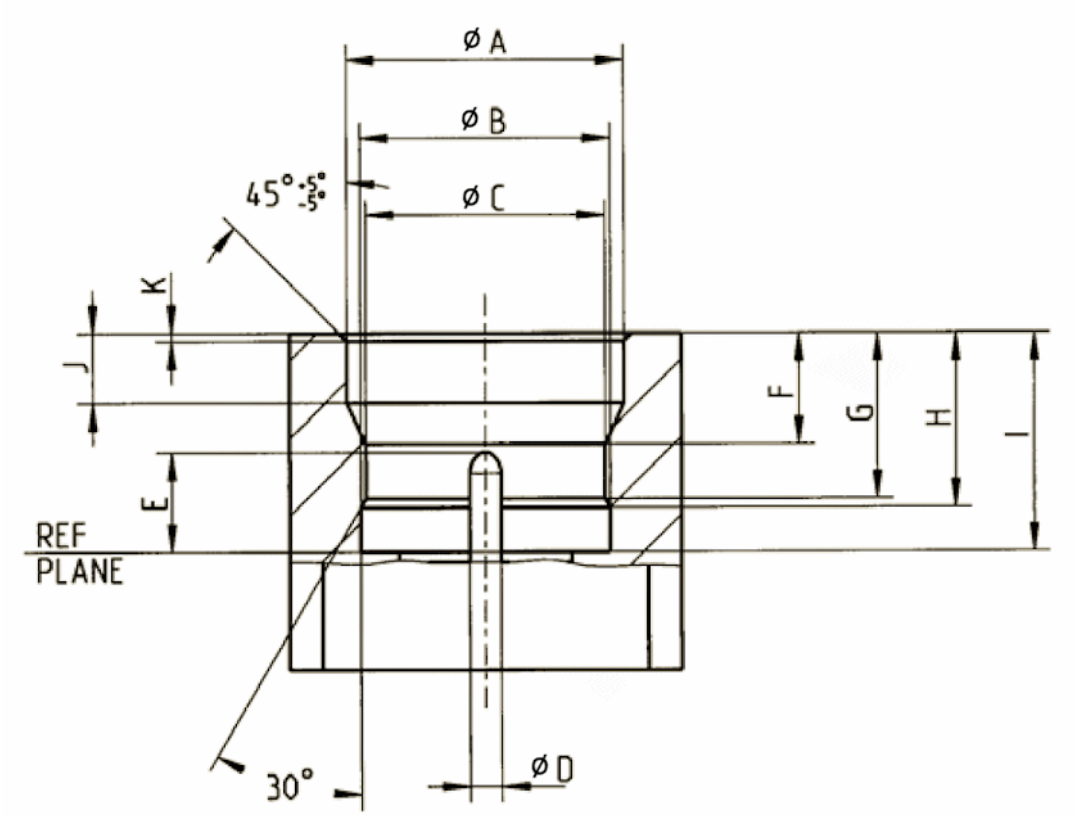
Connector Interface for Full Detent Variants



Symbols	Dimensions (mm)	
	Min	Max
∅A	3.53	3.68
∅B	3.13	3.23
∅C	2.9	3
∅D	0.35	0.41
E	1.14	1.4
F	1.4	1.45
G	1.98	2.08
H	2.19	2.29
I	2.74	2.84
J	0.84	0.94
K	0.08	-

FIGURE 2(a) – INTERFACE DIMENSIONS (CONTINUED)

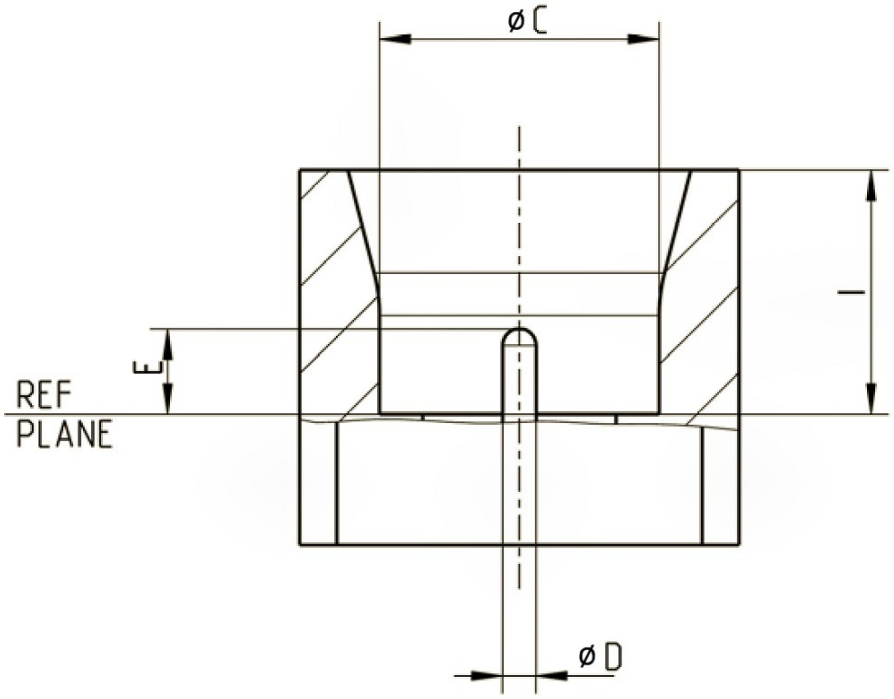
Connector Interface for Limited Detent Variants



Symbols	Dimensions (mm)	
	Min	Max
∅A	3.53	3.68
∅B	3.13	3.23
∅C	3	3.1
∅D	0.35	0.41
E	1.14	1.4
F	1.4	1.45
G	1.98	2.08
H	2.19	2.29
I	2.74	2.84
J	0.84	0.94
K	0.08	-

FIGURE 2(a) – INTERFACE DIMENSIONS (CONTINUED)

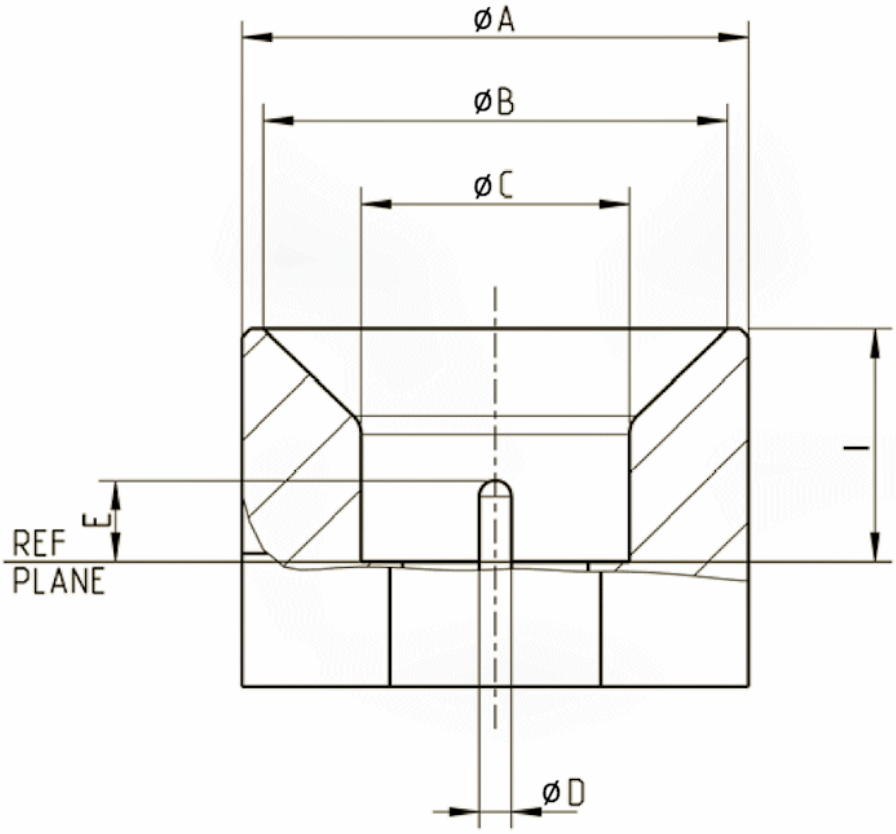
Connector Interface for Smooth Bore Variants



Symbols	Dimensions (mm)	
	Min	Max
∅C	3.13	3.23
∅D	0.35	0.41
E	1.14	1.4
I	2.74	2.84

FIGURE 2(a) – INTERFACE DIMENSIONS (CONTINUED)

Connector Interface for Catcher's Mit Variant



Symbols	Dimensions (mm)	
	Min	Max
∅A	5.84	6.1
∅B	5.33	5.59
∅C	3.13	3.23
∅D	0.35	0.41
E	1.14	1.4
I	2.74	2.84

4. REQUIREMENTS

4.1 GENERAL

The complete requirements for procurement of the components specified herein shall be as stated in this specification and ESCC Generic Specification No. 3402. Deviations from the Generic Specification, applicable to this specification only, are detailed in Para 4.2.

Deviations from the Generic Specification and this Detail Specification, formally agreed with specific Manufacturers on the basis that the alternative requirements are equivalent to the ESCC requirements and do not affect the components' reliability, are listed in the appendices attached to this specification.

4.2 DEVIATIONS FROM GENERIC SPECIFICATION

4.2.1 Deviations from Special In-Process Controls
None.

4.2.2 Deviations from Final Production Tests (Chart II)
(a) Para. 9.4, Coupling Proof Torque: Not applicable.
(b) Para. 9.6, Centre Contact Retention: Torque test is not applicable.
(c) Para. 9.7, Seal Test: Not applicable to Variants 01 to 26 and 28 to 35.

4.2.3 Deviations from Burn-in and Electrical Measurements (Chart III)
Chart III is not applicable.

4.2.4 Deviations from Qualification Tests (Chart IV)
(a) Para. 9.4, Coupling Proof Torque: Not applicable.
(b) Para. 9.7, Seal Test: Not applicable to Variants 01 to 26 and 28 to 35.

4.2.5 Deviations from Lot Acceptance Tests (Chart V)
(a) Para. 9.4, Coupling Proof Torque: Not applicable.
(b) Para. 9.7, Seal Test: Not applicable to Variants 01 to 26 and 28 to 35.

4.3 MECHANICAL REQUIREMENTS

4.3.1 Dimension Check
The dimensions of the connectors specified herein shall be verified in accordance with the requirements set out in Para. 9.25 of ESCC Generic Specification No. 3402 and shall conform to those shown in Figures 2(a) and 2(b) of this specification.

4.3.2 Weight
The maximum weight of the connectors specified herein shall be as specified in Figure 2(b).

4.3.3 Coupling Proof Torque
Not applicable (see Para. 4.2).

4.3.4 Cable Retention Force
The requirements for Cable Retention Force testing are specified in Section 9 of ESCC Generic Specification No. 3402. Figure 2(b) specifies the values of the axial loads. Torque shall be applied as defined in Figure 2(b).

4.3.5 Mating and Unmating Forces
The Mating and Unmating forces testing is not performed. It is only applicable to female connectors, ref. Para. 9.5.3 of ESCC Generic Specification No. 3402.

4.3.6 Endurance
The applicable test requirements are specified in Section 9 of ESCC Generic Specification No. 3402. The number of cycles and the rate are as follows:

Paired with:	No. of Cycles for Qualification (Rate: ≤ 12 cycles/minute)	No. of Cycles for Lot Acceptance (Rate: ≤ 12 cycles/minute)
Smooth Bore / Catcher's Mit	> 1000	> 200
Limited Detent	> 500	> 100
Full Detent	> 100	> 20

4.3.7 Residual Magnetism
The applicable requirements are specified in Section 9 of ESCC Generic Specification No. 3402. The maximum permitted values of residual magnetism are specified in Table 1(a).

4.3.8 Contact Engagement and Separation Forces
The Contact Engagement and Separation Forces testing is not performed. It is only applicable to female contacts, ref. Para. 9.3 of ESCC Generic Specification No. 3402.

4.3.9 Centre Contact Retention Force
The requirements for these measurements are specified in Section 9 of ESCC Generic Specification No. 3402. The test conditions are given in Figure 2(b). After testing, the dimensions of the connector interface shall be within the limits of Figure 2(a).

4.4 MATERIALS AND FINISHES
The materials and finishes shall be as specified herein. Where a definite material is not specified, a material which will enable the connectors specified herein to meet the performance requirements of this specification shall be used. Acceptance or approval of any constituent material does not guarantee acceptance of the finished product.

4.4.1 Shells, Centre Contacts
Shells and centre contacts shall be made of beryllium copper or brass, with copper underplate (1.5µm minimum), electroless nickel underplate (2µm minimum) and gold plating (1.27µm minimum).

4.4.2 Inserts
Inserts shall be made of PTFE or Peek or LCP.

4.4.3 Accessories
Accessories (ferrule, crimping or solder sleeves) shall be made of brass or copper, with copper underplate (1.5µm minimum), electroless nickel underplate (2µm minimum) and gold plating (0.15µm minimum).

4.5 MARKING

4.5.1 General
The marking of all components delivered to this specification shall be in accordance with the requirements of ESCC Basic Specification No. 21700 and the following paragraphs. Each component shall be marked in respect of:

(a) The ESCC Component Number.
(b) Traceability Information.

4.5.2 The ESCC Component Number
Each component shall bear the ESCC Component Number which shall be constituted and marked as follows:

340202401B

- Detail Specification Number: 3402024
- Type Variant Number (see Table 1(a)): 01
- Testing Level: B

4.5.3 Traceability Information
Traceability information shall be marked in accordance with the requirements of ESCC Basic Specification No. 21700.

4.6 ELECTRICAL MEASUREMENTS

4.6.1 Electrical Measurements at Room Temperature
The parameters to be measured at room temperature are scheduled in Table 2. Unless otherwise specified, measurements shall be performed at T_{amb} = +22±3°C.

4.6.2 Electrical Measurements at High and Low Temperatures (Table 3)
Not applicable.

4.6.3 Circuits for Electrical Measurements (Figure 4)
Not applicable.

4.7 BURN-IN AND ELECTRICAL MEASUREMENTS (TABLES 4 AND 5)
Not applicable.

TABLE 2 – ELECTRICAL MEASUREMENTS AT ROOM TEMPERATURE

No.	Characteristics	Symbols	Test Method and Conditions	Limits		Units
				Min	Max	
1	Insulation Resistance	R_i	ESCC 3402, Para. 9.1	Note 2		MΩ
2	Voltage Proof Leakage Current	I_L	ESCC 3402, Para 9.2 (Note 1)	Note 2		mA

NOTES:
1. The Voltage Proof voltage is given in Figure 2(b).
2. The limits are given in Table 1(a).

TABLES 3, 4 AND 5

Not applicable.

4.8 ENVIRONMENTAL AND ENDURANCE TESTS (CHARTS IV AND V OF ESCC GENERIC SPECIFICATION NO. 3402)

4.8.1 Measurements and Inspections on Completion of Environmental Tests
The parameters to be measured and inspections to be performed on completion of environmental testing are scheduled in Table 6. Unless otherwise specified, the measurements shall be performed at T_{amb} = +22±3°C.

4.8.2 Measurements and Inspections at Intermediate Points During Endurance Tests
Not applicable.

4.8.3 Measurements and Inspections on Completion of Endurance Tests
The parameters to be measured and inspections to be performed on completion of endurance testing are scheduled in Table 6. Unless otherwise specified, the measurements shall be performed at T_{amb} = +22±3°C.

4.8.4 Conditions for Operating Life (Part of Endurance Testing) (Table 5)
Not applicable.

4.8.5 Electrical Circuit for Operating Life Test (Figure 5)
Not applicable.

4.8.6 Conditions for High Temperature Storage Test (Part of Endurance Testing)
The requirements for the high temperature storage test are specified in Section 9 of ESCC Generic Specification No. 3402. The conditions for high temperature storage testing shall be the maximum storage temperature specified in Table 1(b) of this specification.

TABLE 6 – MEASUREMENTS AND INSPECTIONS ON COMPLETION OF ENVIRONMENTAL AND ENDURANCE TESTS

No.	ESCC Generic Spec. No. 3402		Measurements And Inspections		Symbol	Limits		Unit
	Environmental and Endurance Tests Note 1	Test Method and Conditions	Identification	Conditions		Min	Max	
01	Coupling Proof Torque	Para 9.4	Not applicable					
02	Mating and Unmating Forces	Para. 9.5	Not applicable					
03	Seal Test	Para. 9.7	Hermeticity	If applicable	-	-	1×10^{-8}	cm^3/s
			Leakage	As applicable	-	No bubbles		-
04	External Visual Inspection	Para. 9.8	External Visual Inspection	Para. 9.8 of ESCC 3402	-	-	-	-
05	Contact Resistance	Para. 9.9.2	**During Test**					
			Contact Resistance	Centre Contact	-	-	6	mΩ
				Shell	-	-	2	mΩ
06	Vibration	Para. 9.10 Full Engagement	**During Test**	**Last Cycle in Each Direction**				
			Electrical Measurements	No open or short circuits	-	-	-	-
			Final Measurements					
			Visual Examination	No evidence of damage	-	-	-	-
			Contact Resistance	Centre Contact	-	-	6	mΩ
07	Shock	Para. 9.11 Full Engagement	**Final Measurements**					
			Visual Examination	No evidence of damage	-	-	-	-
			Contact Resistance	Centre Contact	-	-	6	mΩ
08	Rapid Change of Temperature	Para. 9.12	**Final Measurements**	**After a recovery period of 24±2hrs**				
			Contact Resistance	Centre Contact	-	-	6	mΩ
			Voltage Proof Leakage Current	Table 2 Item 2	I_L	Table 2 Item 2		
			Visual Examination	-	-	-	-	-
09	Climatic Sequence	Para. 9.13	**During Test**	**At Low Air Pressure**				
			Voltage Proof	0.1× value of Figure 2(b)	VP	No flashover or breakdown		
			Final Measurements	**After final Damp Heat cycle** (within 1 to 24hrs recovery)				
			External Visual Inspection	Para. 9.8 of ESCC 3402	-	-	-	-
			Insulation Resistance	Table 2 Item 1	R_i	5000	-	MΩ
			Voltage Proof Leakage Current	Table 2 Item 2	I_L	Table 2 Item 2		
10	Cable Retention Force	Para. 9.14 and Para. 4.3.4 of this Spec.	**During Test**					
			Continuity	-	-	-	-	-
11	Cabling and Crimping Capability	Para. 9.15	Visual Examination	Para. 9.15 of ESCC 3402	-	-	-	-
			Dimensions	Para. 9.15 of ESCC 3402	-	-	-	-
			Insulation Resistance	Table 2 Item 1	R_i	5000	-	MΩ
			Voltage Proof Leakage Current	Table 2 Item 2	I_L	Table 2 Item 2		
12	VSWR or Reflection Coefficient	Para. 9.16	Return Loss	Para. 9.16 of ESCC 3402	-	Figure 2(b)		

No.	ESCC Generic Spec. No. 3402		Measurements And Inspections		Symbol	Limits		Unit
	Environmental and Endurance Tests Note 1	Test Method and Conditions	Identification	Conditions		Min	Max	
13	Corona Level	Para. 9.17	Corona	Para. 9.17 of ESCC 3402	-	Figure 2(b)		
14	Endurance	Para. 9.18 and Para. 4.3.6 of this Spec.	**Final Measurements**					
			Mating and Unmating Forces: Not performed					
			Contact Resistance	Centre Contact	-	-	6	mΩ
				Shell	-	-	2	mΩ
			Visual Examination	Para. 9.18 of ESCC 3402	-	-	-	-
15	RF Insertion Loss	Para. 9.19	Insertion Loss	Para. 9.19 of ESCC 3402	-	Figure 2(b)		
16	Corrosion	Para. 9.20	Visual Examination	Para. 9.20 of ESCC 3402: No exposure of base metal	-	-	-	-
17	Residual Magnetism	Para. 9.21	Magnetism	-	-	Para. 4.3.7 of this Spec.		
18	Soldering Proof	Para. 9.22	**Final Measurements**					
			Interface Dimensions	-	-	Figure 2(a)		
			Mating and Unmating Forces: Not performed					
			Insulation Resistance	Table 2 Item 1	R_i	5000	-	MΩ
			Voltage Proof Leakage Current	Table 2 Item 2	I_L	Table 2 Item 2		
			Contact Resistance	Centre Contact	-	-	6	mΩ
				Shell	-	-	2	mΩ
			External Visual Inspection	Para. 9.8 of ESCC 3402	-	-	-	-
19	RF Leakage	Para. 9.23	Leakage	-	-	Figure 2(b)		
20	High Temperature Storage	Para. 9.24 and Para. 4.8.6 of this Spec.	**Final Measurements**					
			Mating and Unmating Forces: Not performed					
			Insulation Resistance	Table 2 Item 1	R_i	5000	-	MΩ
			Voltage Proof Leakage Current	Table 2 Item 2	I_L	Table 2 Item 2		
			Contact Retention (axial)	Para. 4.3.9 of this Spec.	-	Para. 4.3.9 of this Spec.		
			Visual Examination	-	-	-	-	-
			Contact Resistance	Centre Contact	-	-	6	mΩ
				Shell	-	-	2	mΩ
			External Visual Inspection	Para. 9.8 of ESCC 3402	-	-	-	-
21	Permanence of Marking	Para. 9.27	Marking Permanence	Para. 9.27 of ESCC 3402	-	-	-	-
22	Plating Thickness (Hermetic Types Only)	Para. 9.29	Plating Thickness	Para. 5.2.4 of ESCC 3402	-	Para. 4.4 of this Spec.		-

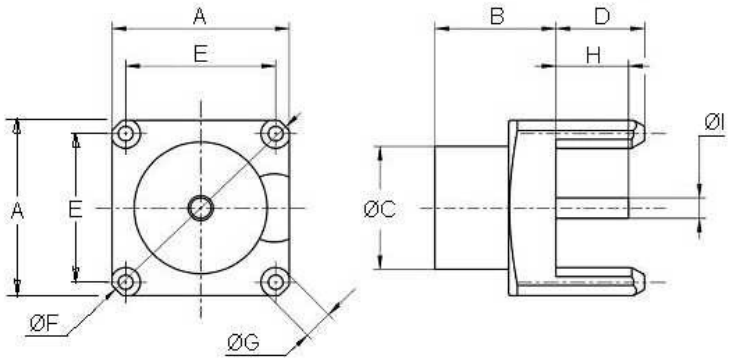
NOTES:

1. The tests in this Table refer to either Chart IV or V and shall be used as applicable.

FIGURE 2 – PHYSICAL DIMENSIONS (CONTINUED)

FIGURE 2(b) – VARIANTS

Variant 01 – SMP Straight Receptacle, PCB, Limited Detent



Symbols	Dimensions mm	
	Min	Max
A	5.9	6.1
B	4	4.2
∅C	4.1	4.3
D	2.9	3.1
E	4.98	5.18
∅F	7.8	8.2
∅G	0.9	1.1
H	2.3	2.7
∅I	0.6	0.8

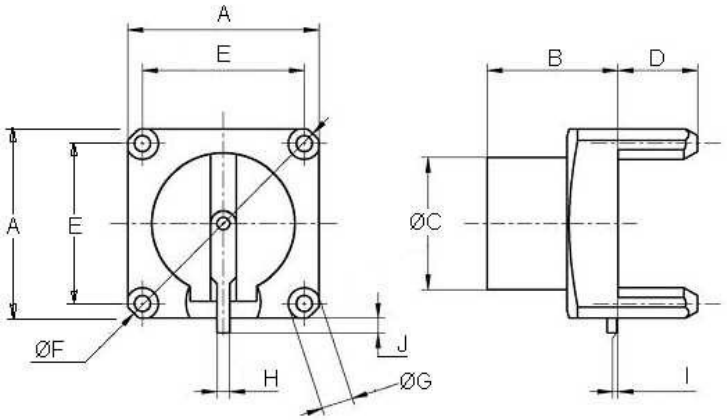
ELECTRICAL CHARACTERISTICS	VALUES	UNITS
The characteristics, values and units are specified in Table 1(a)		

MECHANICAL CHARACTERISTICS	VALUES	UNITS
The characteristics, values and units are specified in Table 1(a)		

OTHER CHARACTERISTICS	VALUES	UNITS
The characteristics, values and units are specified in Table 1(a)		

FIGURE 2(b) – VARIANTS (CONTINUED)

Variants 02 and 11 – SMP Straight Receptacle, PCB, Limited Detent and Smooth Bore



Symbols	Dimensions mm	
	Min	Max
A	5.9	6.1
B	4	4.2
∅C	4.1	4.3
D	2.4	2.6
E	4.98	5.18
∅F	7.8	8.2
∅G	0.9	1.1
H	0.35	0.45
I	0 ± 0.1	
J	0.4	0.6

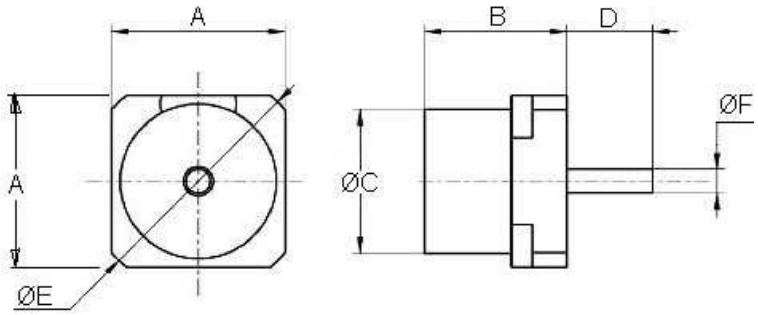
ELECTRICAL CHARACTERISTICS	VALUES	UNITS
The characteristics, values and units are specified in Table 1(a)		

MECHANICAL CHARACTERISTICS	VALUES	UNITS
The characteristics, values and units are specified in Table 1(a)		

OTHER CHARACTERISTICS	VALUES	UNITS
The characteristics, values and units are specified in Table 1(a)		

FIGURE 2(b) – VARIANTS (CONTINUED)

Variants 03 and 15 – SMP Straight Receptacle, Thru-hole and PCB, Limited Detent



Symbols	Dimensions mm		Remarks
	Min	Max	
A	4.9	5.1	Variants 03 and 15
B	4	4.2	Variants 03 and 15
∅C	4.1	4.3	Variants 03 and 15
D	2.3	2.7	Variant 03
	0.6	1	Variant 15
∅E	6.3	6.7	Variants 03 and 15
∅F	0.6	0.8	Variants 03 and 15

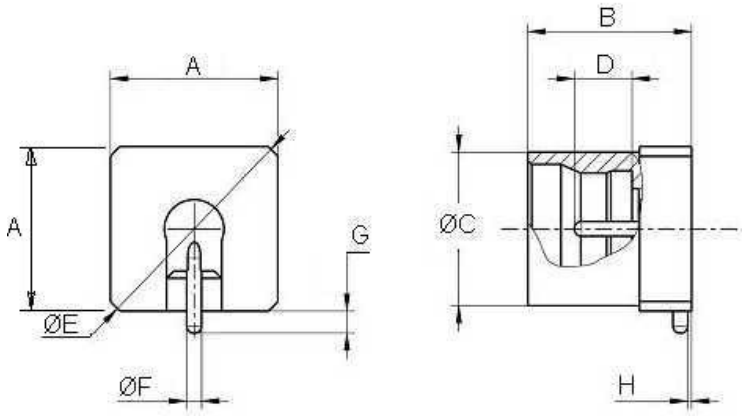
ELECTRICAL CHARACTERISTICS	VALUES	UNITS
The characteristics, values and units are specified in Table 1(a)		

MECHANICAL CHARACTERISTICS	VALUES	UNITS
The characteristics, values and units are specified in Table 1(a)		

OTHER CHARACTERISTICS	VALUES	UNITS
The characteristics, values and units are specified in Table 1(a)		

FIGURE 2(b) – VARIANTS (CONTINUED)

Variant 04 – SMP Straight Receptacle, PCB, Limited Detent



Symbols	Dimensions mm	
	Min	Max
A	4.4	4.6
B	4.3	4.5
∅C	4.1	4.3
D	1.14	1.7
∅E	5.9	6.1
∅F	0.35	0.45
G	0.5	0.7
H	0.1 (+0, -0.15)	

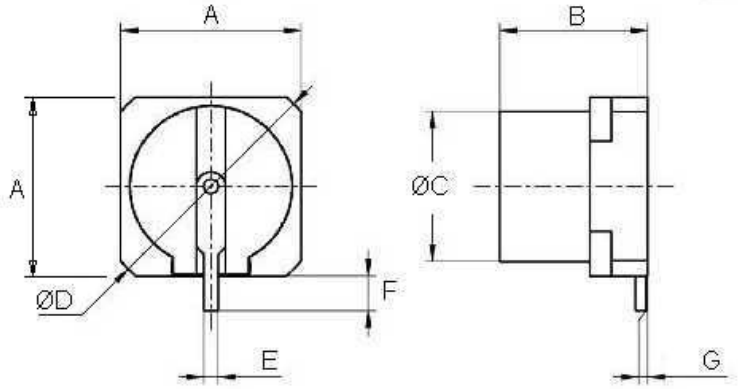
ELECTRICAL CHARACTERISTICS	VALUES	UNITS
The characteristics, values and units are specified in Table 1(a)		

MECHANICAL CHARACTERISTICS	VALUES	UNITS
The characteristics, values and units are specified in Table 1(a)		

OTHER CHARACTERISTICS	VALUES	UNITS
The characteristics, values and units are specified in Table 1(a)		

FIGURE 2(b) – VARIANTS (CONTINUED)

Variants 05 and 10 – SMP Straight Receptacle, PCB, Limited Detent and Smooth Bore



Symbols	Dimensions mm	
	Min	Max
A	4.9	5.1
B	4	4.2
∅C	4.1	4.3
∅D	6.3	6.7
E	0.35	0.45
F	0.9	1.1
G	0 ± 0.1	

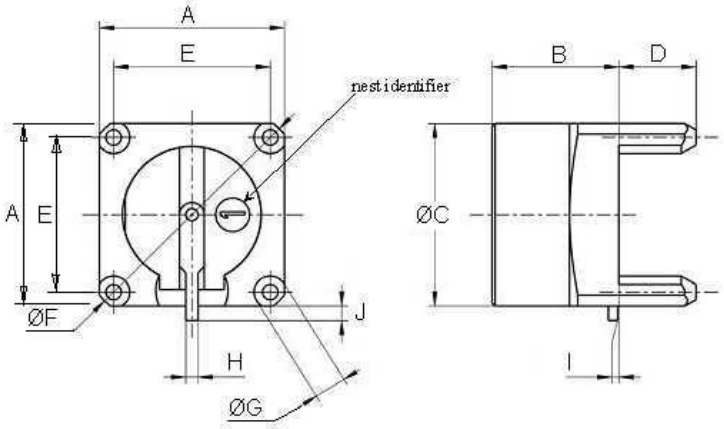
ELECTRICAL CHARACTERISTICS	VALUES	UNITS
The characteristics, values and units are specified in Table 1(a)		

MECHANICAL CHARACTERISTICS	VALUES	UNITS
The characteristics, values and units are specified in Table 1(a)		

OTHER CHARACTERISTICS	VALUES	UNITS
The characteristics, values and units are specified in Table 1(a)		

FIGURE 2(b) – VARIANTS (CONTINUED)

Variant 06 – SMP Straight Receptacle, PCB, Limited Detent



Symbols	Dimensions mm	
	Min	Max
A	5.9	6.1
B	4	4.2
∅C	5.9	6.1
D	2.4	2.6
E	4.98	5.18
∅F	7.8	8.2
∅G	0.95	1.15
H	0.35	0.45
I	0 ± 0.1	
J	0.4	0.6

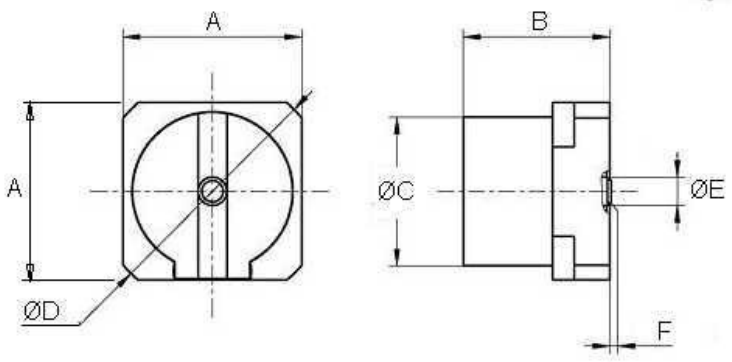
ELECTRICAL CHARACTERISTICS	VALUES	UNITS
The characteristics, values and units are specified in Table 1(a)		

MECHANICAL CHARACTERISTICS	VALUES	UNITS
The characteristics, values and units are specified in Table 1(a)		

OTHER CHARACTERISTICS	VALUES	UNITS
The characteristics, values and units are specified in Table 1(a)		

FIGURE 2(b) – VARIANTS (CONTINUED)

Variant 07 – SMP Straight Receptacle, PCB, Limited Detent



Symbols	Dimensions mm	
	Min	Max
A	4.9	5.1
B	4	4.2
∅C	4.1	4.3
∅D	6.3	6.7
∅E	0.7	0.9
F	0.05 (+0, -0.15)	

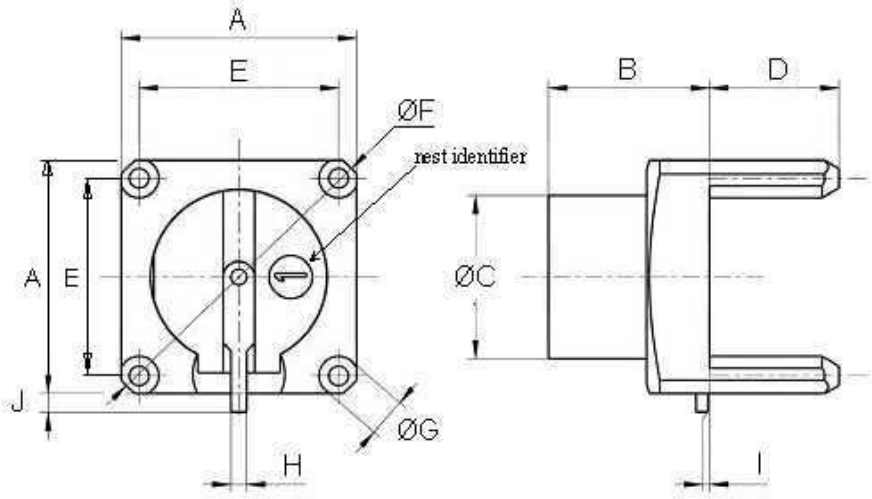
ELECTRICAL CHARACTERISTICS	VALUES	UNITS
The characteristics, values and units are specified in Table 1(a)		

MECHANICAL CHARACTERISTICS	VALUES	UNITS
The characteristics, values and units are specified in Table 1(a)		

OTHER CHARACTERISTICS	VALUES	UNITS
The characteristics, values and units are specified in Table 1(a)		

FIGURE 2(b) – VARIANTS (CONTINUED)

Variant 08 – SMP Straight Receptacle, PCB, Limited Detent



Symbols	Dimensions mm	
	Min	Max
A	5.9	6.1
B	4	4.2
∅C	4.1	4.3
D	3.2	3.4
E	4.98	5.18
∅F	7.8	8.2
∅G	0.9	1.1
H	0.35	0.45
I	0 ± 0.1	
J	0.4	0.6

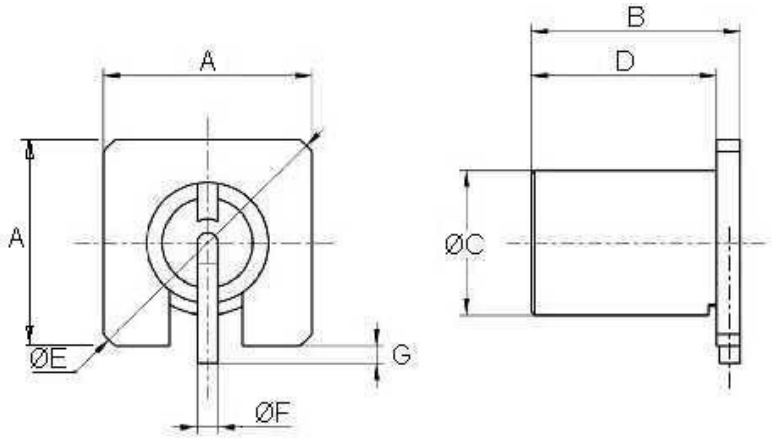
ELECTRICAL CHARACTERISTICS	VALUES	UNITS
The characteristics, values and units are specified in Table 1(a)		

MECHANICAL CHARACTERISTICS	VALUES	UNITS
The characteristics, values and units are specified in Table 1(a)		

OTHER CHARACTERISTICS	VALUES	UNITS
The characteristics, values and units are specified in Table 1(a)		

FIGURE 2(b) – VARIANTS (CONTINUED)

Variant 09 – SMP Straight Receptacle, PCB, Limited Detent



Symbols	Dimensions mm	
	Min	Max
A	5.9	6.1
B	5.9	6.1
∅C	4.1	4.3
D	5.2	5.4
∅E	7.8	8.2
∅F	0.5	0.7
G	0.4	0.6

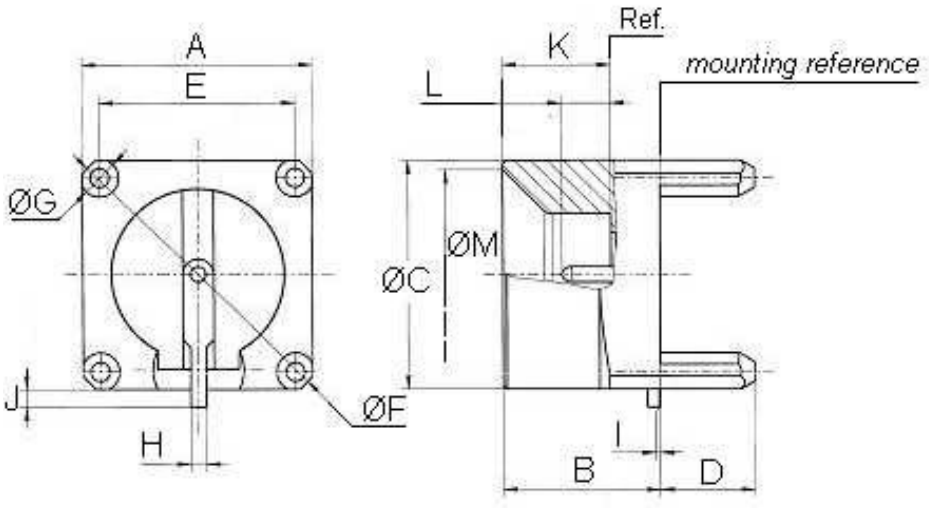
ELECTRICAL CHARACTERISTICS	VALUES	UNITS
The characteristics, values and units are specified in Table 1(a)		

MECHANICAL CHARACTERISTICS	VALUES	UNITS
The characteristics, values and units are specified in Table 1(a)		

OTHER CHARACTERISTICS	VALUES	UNITS
The characteristics, values and units are specified in Table 1(a)		

FIGURE 2(b) – VARIANTS (CONTINUED)

Variant 12 – SMP Straight Receptacle, PCB, Smooth Bore



Symbols	Dimensions mm	
	Min	Max
A	5.9	6.1
B	4	4.2
∅C	5.9	6.1
D	2.4	2.6
E	4.98	5.18
∅F	7.8	8.2
∅G	0.9	1.1
H	0.35	0.45
I	0 ± 0.1	
J	0.4	0.6
K	2.76	2.84
L	1.14	1.4
∅M	5.4	5.6

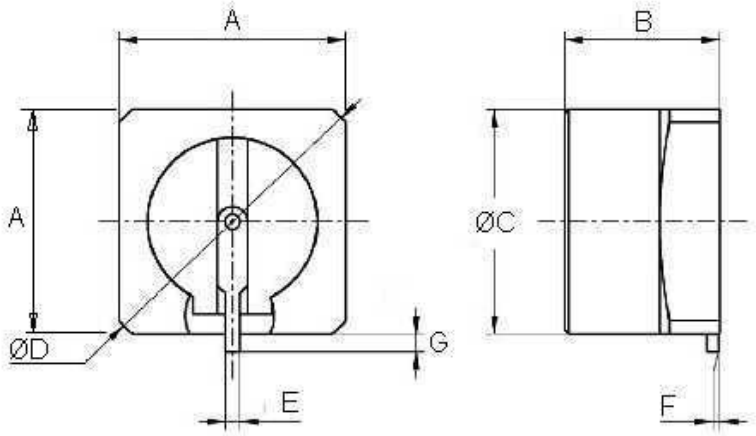
ELECTRICAL CHARACTERISTICS	VALUES	UNITS
The characteristics, values and units are specified in Table 1(a)		

MECHANICAL CHARACTERISTICS	VALUES	UNITS
The characteristics, values and units are specified in Table 1(a)		

OTHER CHARACTERISTICS	VALUES	UNITS
The characteristics, values and units are specified in Table 1(a)		

FIGURE 2(b) – VARIANTS (CONTINUED)

Variant 13 – SMP Straight Receptacle, PCB, Catcher's Mit



Symbols	Dimensions mm	
	Min	Max
A	5.9	6.1
B	4	4.2
∅C	5.9	6.1
∅D	7.8	8.2
E	0.3	0.5
F	0 ± 0.1	
G	0.4	0.6

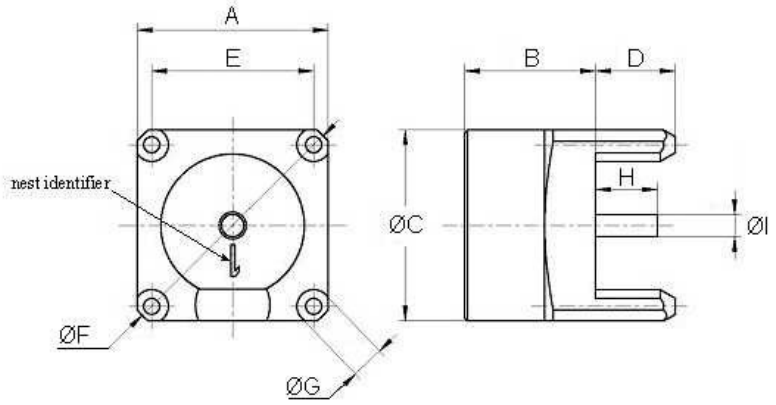
ELECTRICAL CHARACTERISTICS	VALUES	UNITS
The characteristics, values and units are specified in Table 1(a)		

MECHANICAL CHARACTERISTICS	VALUES	UNITS
The characteristics, values and units are specified in Table 1(a)		

OTHER CHARACTERISTICS	VALUES	UNITS
The characteristics, values and units are specified in Table 1(a)		

FIGURE 2(b) – VARIANTS (CONTINUED)

Variant 14 – SMP Straight Receptacle, PCB, Smooth Bore



Symbols	Dimensions mm	
	Min	Max
A	5.9	6.1
B	4	4.2
∅C	5.9	6.1
D	2.4	2.6
E	4.98	5.18
∅F	7.8	8.2
∅G	0.9	1.1
H	1.9	2.1
∅I	0.6	0.8

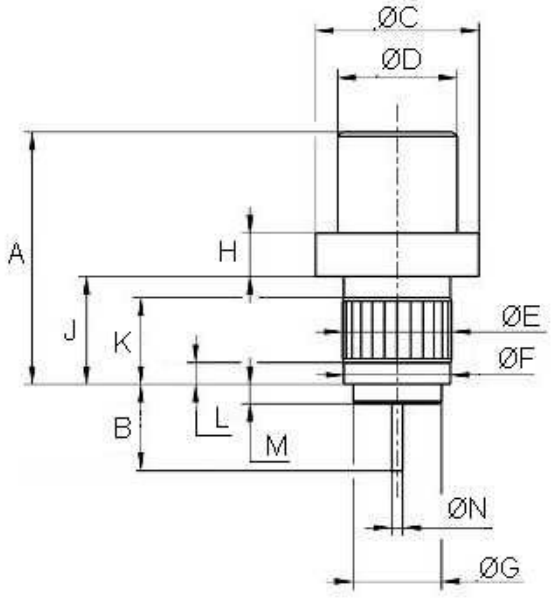
ELECTRICAL CHARACTERISTICS	VALUES	UNITS
The characteristics, values and units are specified in Table 1(a)		

MECHANICAL CHARACTERISTICS	VALUES	UNITS
The characteristics, values and units are specified in Table 1(a)		

OTHER CHARACTERISTICS	VALUES	UNITS
The characteristics, values and units are specified in Table 1(a)		

FIGURE 2(b) – VARIANTS (CONTINUED)

Variant 16 – SMP Straight Receptacle, Press-in, Limited Detent



Symbols	Dimensions mm	
	Min	Max
A	11.5	11.9
B	3.7	4.3
∅C	7.3	7.7
∅D	5.4	5.6
∅E	5.03	5.11
∅F	4.8	5
∅G	3.96	4.16
H	1.9	2.1
J	4.9	5.1
K	3.9	4.1
L	0.9	1.1
M	0.8	1.2
∅N	0.4	0.6

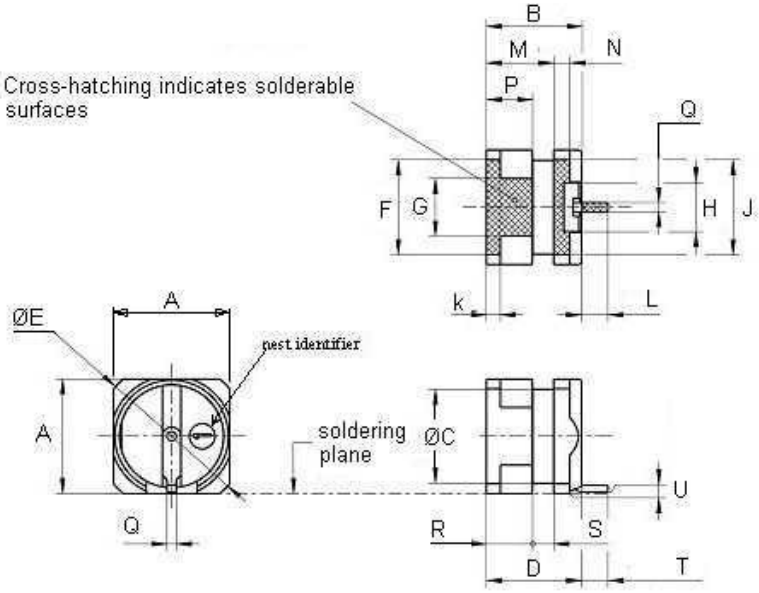
ELECTRICAL CHARACTERISTICS	VALUES	UNITS
The characteristics, values and units are specified in Table 1(a)		

MECHANICAL CHARACTERISTICS	VALUES	UNITS
The characteristics, values and units are specified in Table 1(a)		

OTHER CHARACTERISTICS	VALUES	UNITS
The characteristics, values and units are specified in Table 1(a)		

FIGURE 2(b) – VARIANTS (CONTINUED)

Variant 17 – SMP Right Angle Receptacle, PCB, Limited Detent



Symbols	Dimensions mm	
	Min	Max
A	4.9	5.1
B	4.1	4.3
∅C	4	4.2
D	4	4.2
∅E	6.3	6.7
F	4.05	4.25
G	2.4	2.6
H	2.05	2.25
J	4.05	4.25
k	0.5	0.7
L	1.05	1.25
M	2.8	3
N	0.6	0.8
P	1.9	2.1
Q	0.35	0.45
R	1.8	2.2
S	0.8	1
T	1	1.4
U	0.05 (+0, -0.1)	

Variant 17 – SMP Right Angle Receptacle, PCB, Limited Detent (Continued)

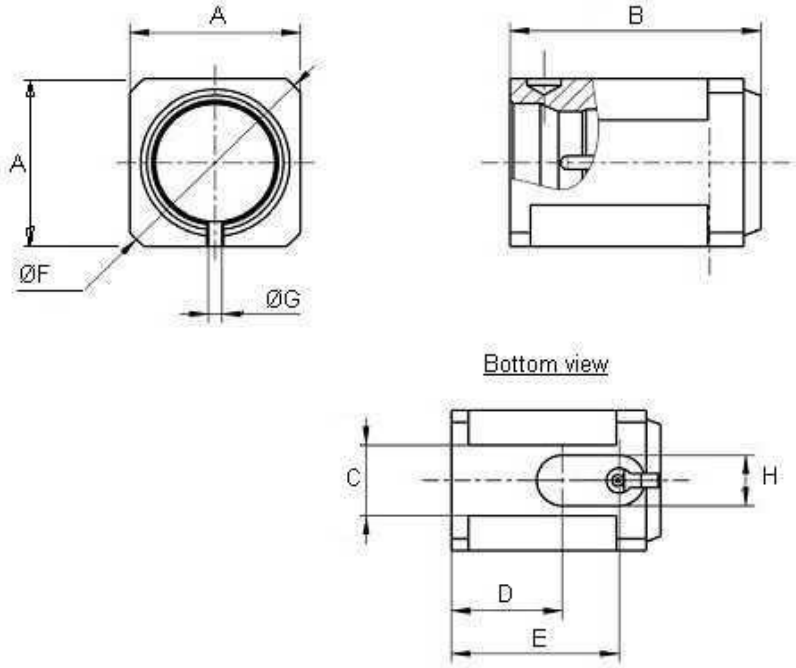
ELECTRICAL CHARACTERISTICS	VALUES	UNITS
The characteristics, values and units are specified in Table 1(a)		

MECHANICAL CHARACTERISTICS	VALUES	UNITS
The characteristics, values and units are specified in Table 1(a)		

OTHER CHARACTERISTICS	VALUES	UNITS
The characteristics, values and units are specified in Table 1(a)		

FIGURE 2(b) – VARIANTS (CONTINUED)

Variant 18 – SMP Right Angle Receptacle, Limited Detent



Symbols	Dimensions mm	
	Min	Max
A	4.9	5.1
B	7.15	7.55
C	2.29	2.67
D	3.9	4.1
E	5.9	6.1
∅F	6.3	6.7
∅G	0.35	0.45
H	1.7	1.9

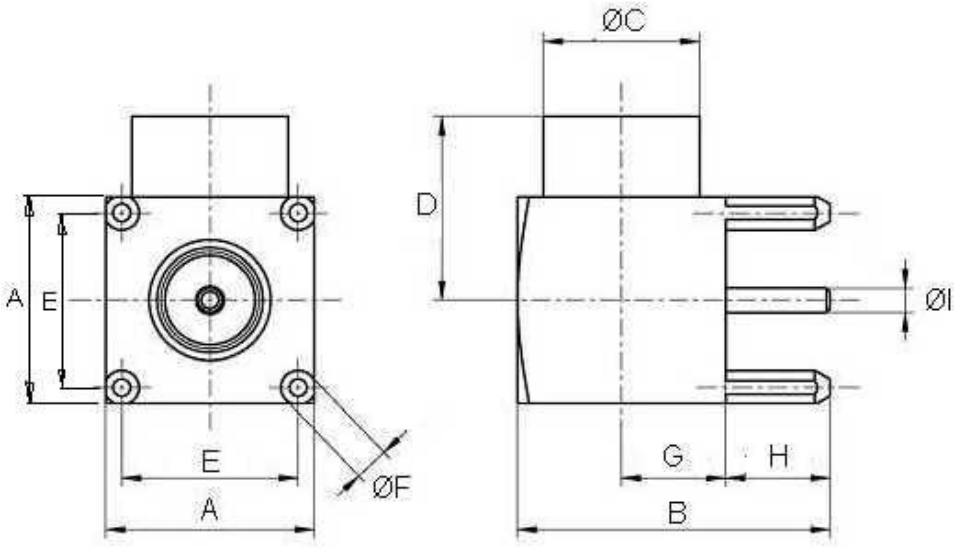
ELECTRICAL CHARACTERISTICS	VALUES	UNITS
The characteristics, values and units are specified in Table 1(a)		

MECHANICAL CHARACTERISTICS	VALUES	UNITS
The characteristics, values and units are specified in Table 1(a)		

OTHER CHARACTERISTICS	VALUES	UNITS
The characteristics, values and units are specified in Table 1(a)		

FIGURE 2(b) – VARIANTS (CONTINUED)

Variant 19 – SMP Right Angle Receptacle, Limited Detent



Symbols	Dimensions mm	
	Min	Max
A	5.9	6.1
B	8.8	9.2
∅C	4.4	4.6
D	5.25	5.45
E	4.98	5.18
∅F	0.9	1.1
G	2.8	3.2
H	2.8	3.2
∅I	0.6	0.8

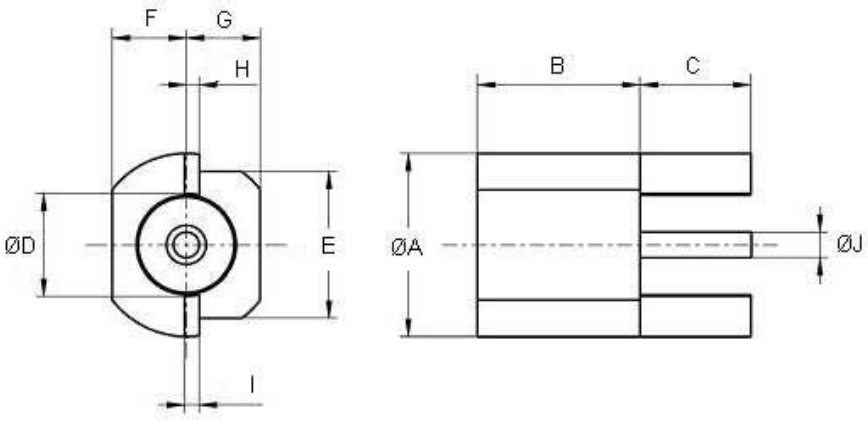
ELECTRICAL CHARACTERISTICS	VALUES	UNITS
The characteristics, values and units are specified in Table 1(a)		

MECHANICAL CHARACTERISTICS	VALUES	UNITS
The characteristics, values and units are specified in Table 1(a)		

OTHER CHARACTERISTICS	VALUES	UNITS
The characteristics, values and units are specified in Table 1(a)		

FIGURE 2(b) – VARIANTS (CONTINUED)

Variants 20, 23 and 25 – SMP Right Angle Receptacle, Limited Detent and Smooth Bore and Full Detent



Symbols	Dimensions mm	
	Min	Max
∅A	4.9	5.1
B	4.3	4.5
C	2.9	3.1
∅D	2.7	2.9
E	3.9	4.1
F	1.9	2.1
G	1.9	2.1
H	0.3	0.4
I	0.35	0.45
∅J	0.6	0.8

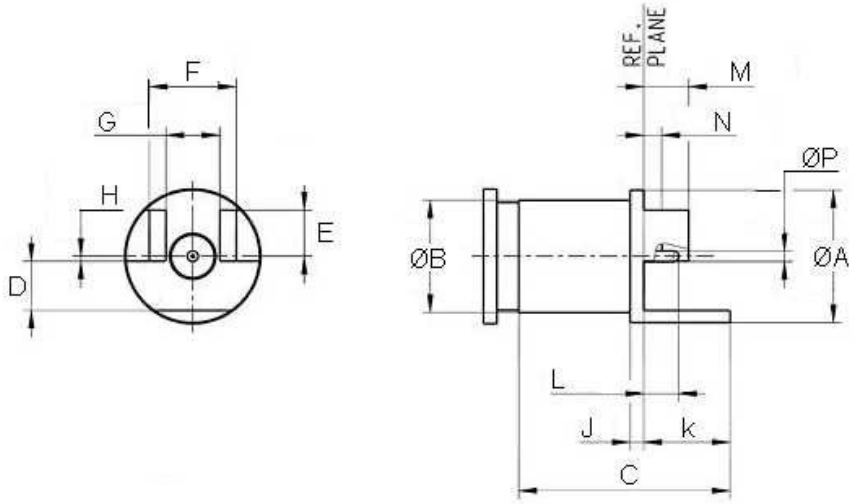
ELECTRICAL CHARACTERISTICS	VALUES	UNITS
The characteristics, values and units are specified in Table 1(a)		

MECHANICAL CHARACTERISTICS	VALUES	UNITS
The characteristics, values and units are specified in Table 1(a)		

OTHER CHARACTERISTICS	VALUES	UNITS
The characteristics, values and units are specified in Table 1(a)		

FIGURE 2(b) – VARIANTS (CONTINUED)

Variant 21 – SMP Right Angle Receptacle, Limited Detent



Symbols	Dimensions mm	
	Min	Max
∅A	4.82	5.02
∅B	4.07	4.27
C	7.6	8
D	1.73	1.93
E	1.62	1.82
F	3.13	3.27
G	1.88	2.08
H	0.08	0.28
J	0.4	0.6
k	3.13	3.23
L	1.25	1.29
M	1.61	1.71
N	0.62	0.72
∅P	0.33	0.43

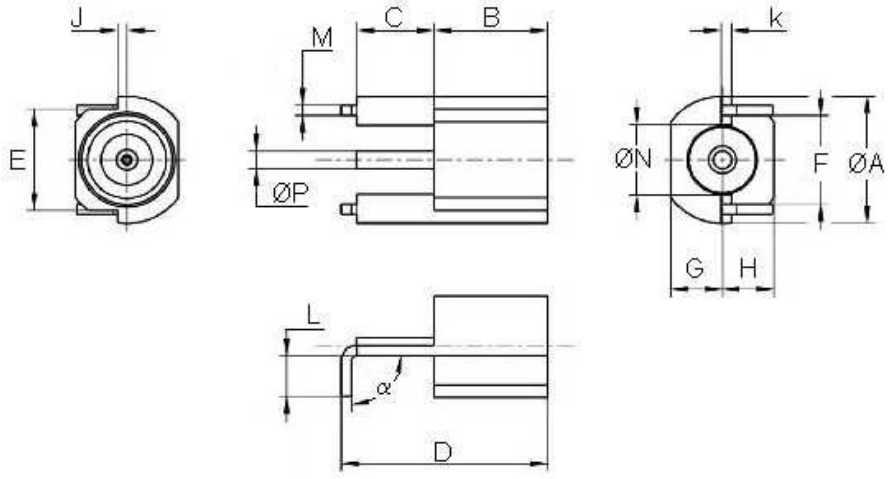
ELECTRICAL CHARACTERISTICS	VALUES	UNITS
The characteristics, values and units are specified in Table 1(a)		

MECHANICAL CHARACTERISTICS	VALUES	UNITS
The characteristics, values and units are specified in Table 1(a)		

OTHER CHARACTERISTICS	VALUES	UNITS
The characteristics, values and units are specified in Table 1(a)		

FIGURE 2(b) – VARIANTS (CONTINUED)

Variant 22 – SMP Right Angle Receptacle, Limited Detent



Symbols	Dimensions mm	
	Min	Max
∅A	4.9	5.1
B	4.3	4.5
C	2.9	3.1
D	7.8	8.2
E	3.9	4.1
F	3.4	3.6
G	1.9	2.1
H	1.9	2.1
J	0.3	0.4
k	0.35	0.45
L	1.45	1.75
M	0.35	0.45
∅N	2.7	2.9
∅P	0.6	0.8
α	89°	91°

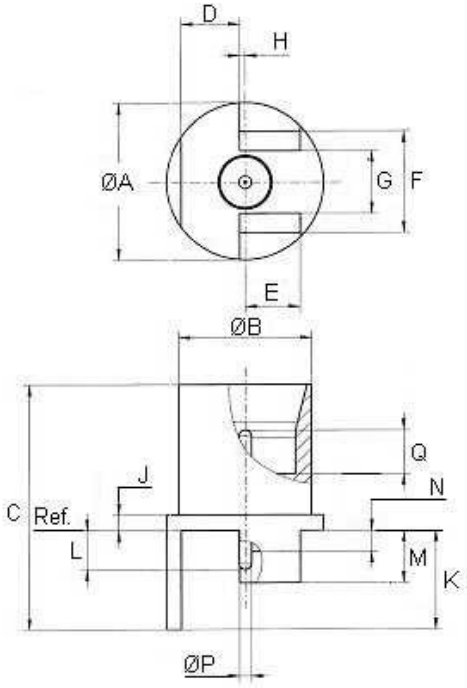
ELECTRICAL CHARACTERISTICS	VALUES	UNITS
The characteristics, values and units are specified in Table 1(a)		

MECHANICAL CHARACTERISTICS	VALUES	UNITS
The characteristics, values and units are specified in Table 1(a)		

OTHER CHARACTERISTICS	VALUES	UNITS
The characteristics, values and units are specified in Table 1(a)		

FIGURE 2(b) – VARIANTS (CONTINUED)

Variant 24 – SMP Right Angle Receptacle, Smooth Bore



Symbols	Dimensions mm	
	Min	Max
∅A	4.82	5.02
∅B	4.07	4.27
C	7.6	8
D	1.73	1.93
E	1.68	1.78
F	3.13	3.27
G	1.93	2.03
H	0.13	0.23
J	0.4	0.6
K	3.13	3.23
L	1.07	1.47
M	1.61	1.71
N	0.62	0.72
∅P	0.33	0.43
Q	1.14	1.4

Variant 24 – SMP Right Angle Receptacle, Smooth Bore (Continued)

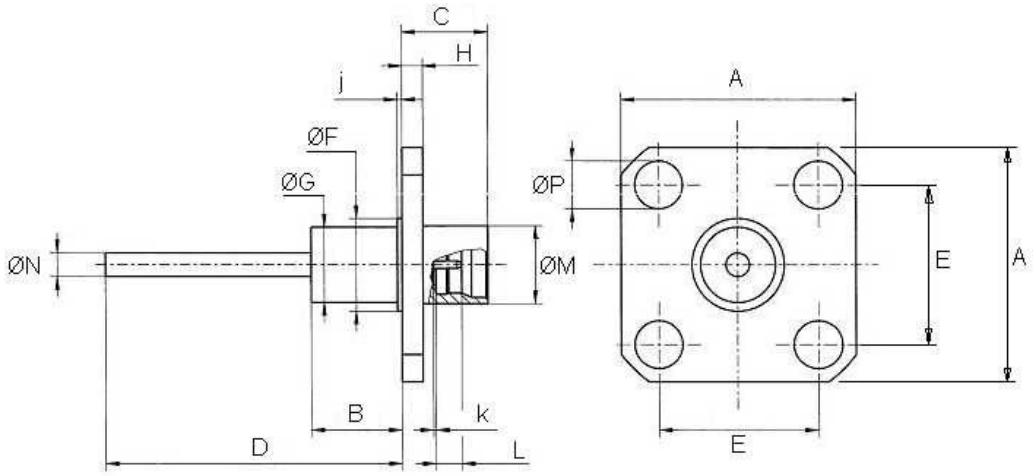
ELECTRICAL CHARACTERISTICS	VALUES	UNITS
The characteristics, values and units are specified in Table 1(a)		

MECHANICAL CHARACTERISTICS	VALUES	UNITS
The characteristics, values and units are specified in Table 1(a)		

OTHER CHARACTERISTICS	VALUES	UNITS
The characteristics, values and units are specified in Table 1(a)		

FIGURE 2(b) – VARIANTS (CONTINUED)

Variant 26 – SMP Panel Receptacle, Limited Detent



Symbols	Dimensions mm	
	Min	Max
A	12.5	12.9
B	4.8	5.2
C	4.55	4.69
D	16.1	16.3
E	8.44	8.84
∅F	4.95	5
∅G	4.05	4.15
H	1.04	1.24
j	0.15	0.35
k	0	-
L	1.14	1.4
∅M	4.1	4.3
∅N	1.24	1.3
∅P	2.5	2.7

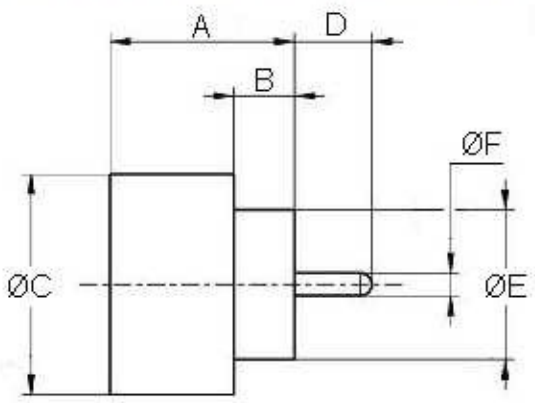
ELECTRICAL CHARACTERISTICS	VALUES	UNITS
The characteristics, values and units are specified in Table 1(a)		

MECHANICAL CHARACTERISTICS	VALUES	UNITS
The characteristics, values and units are specified in Table 1(a)		

OTHER CHARACTERISTICS	VALUES	UNITS
The characteristics, values and units are specified in Table 1(a)		

FIGURE 2(b) – VARIANTS (CONTINUED)

Variant 27 – SMP Bulkhead Receptacle, Hermetic, Full Detent



Symbols	Dimensions mm	
	Min	Max
A	2.95	3.15
B	0.9	1.1
∅C	3.63	3.73
D	1.12	1.42
∅E	2.44	2.54
∅F	0.33	0.43

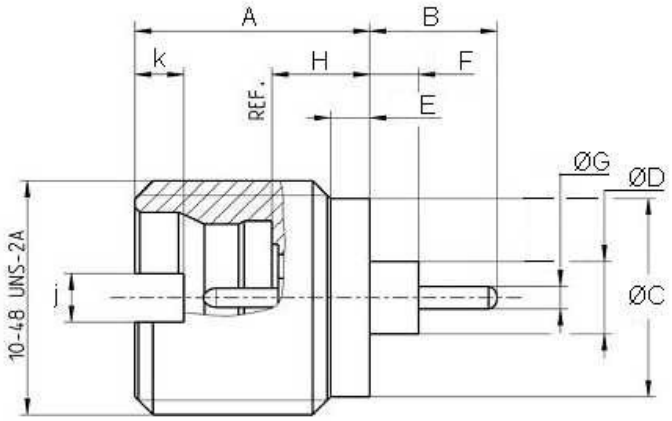
ELECTRICAL CHARACTERISTICS	VALUES	UNITS
The characteristics, values and units are specified in Table 1(a)		

MECHANICAL CHARACTERISTICS	VALUES	UNITS
The characteristics, values and units are specified in Table 1(a)		

OTHER CHARACTERISTICS	VALUES	UNITS
The characteristics, values and units are specified in Table 1(a)		

FIGURE 2(b) – VARIANTS (CONTINUED)

Variant 28 – SMP Bulkhead Receptacle, Limited Detent



Symbols	Dimensions mm	
	Min	Max
A	4.7	4.9
B	2.5	2.7
∅C	4	4.2
∅D	1.4	1.5
E	0.6	1
F	0.8	1.2
∅G	0.44	0.47
H	2	2.1
j	0.9	1.1
k	0.9	1.1

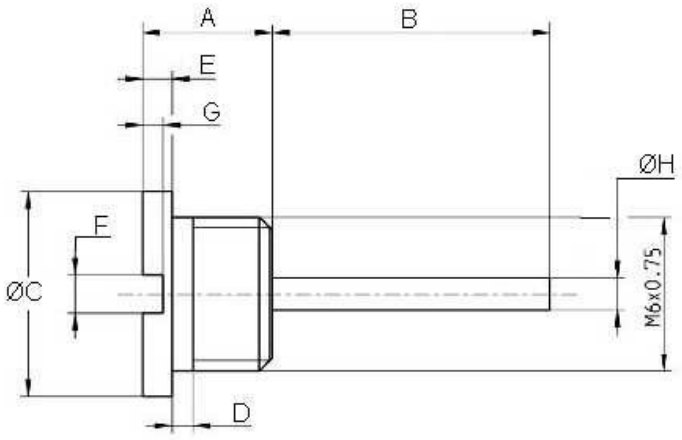
ELECTRICAL CHARACTERISTICS	VALUES	UNITS
The characteristics, values and units are specified in Table 1(a)		

MECHANICAL CHARACTERISTICS	VALUES	UNITS
The characteristics, values and units are specified in Table 1(a)		

OTHER CHARACTERISTICS	VALUES	UNITS
The characteristics, values and units are specified in Table 1(a)		

FIGURE 2(b) – VARIANTS (CONTINUED)

Variant 29 – SMP Bulkhead Receptacle, Limited Detent



Symbols	Dimensions mm	
	Min	Max
A	4.9	5.1
B	10.5	10.9
∅C	7.8	8.2
D	0.7	0.9
E	1	1.2
F	1.4	1.6
G	0.7	0.9
∅H	1.24	1.27

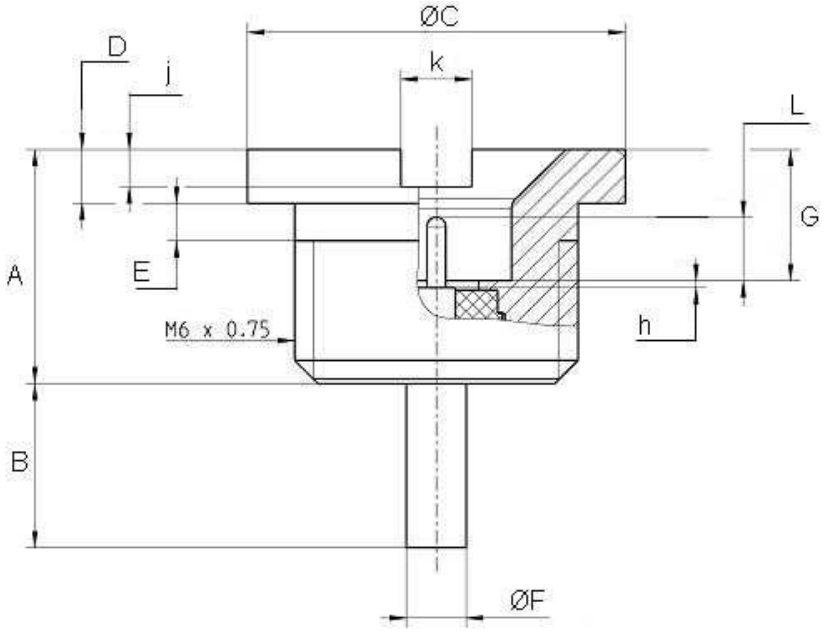
ELECTRICAL CHARACTERISTICS	VALUES	UNITS
The characteristics, values and units are specified in Table 1(a)		

MECHANICAL CHARACTERISTICS	VALUES	UNITS
The characteristics, values and units are specified in Table 1(a)		

OTHER CHARACTERISTICS	VALUES	UNITS
The characteristics, values and units are specified in Table 1(a)		

FIGURE 2(b) – VARIANTS (CONTINUED)

Variant 30 – SMP Bulkhead Receptacle, Smooth Bore



Symbols	Dimensions mm	
	Min	Max
A	4.9	5.1
B	3.4	3.6
∅C	7.8	8.2
D	1	1.2
E	0.7	0.9
∅F	1.24	1.27
G	2.76	2.84
h	0	-
j	0.7	0.9
k	1.4	1.6
L	1.14	1.4

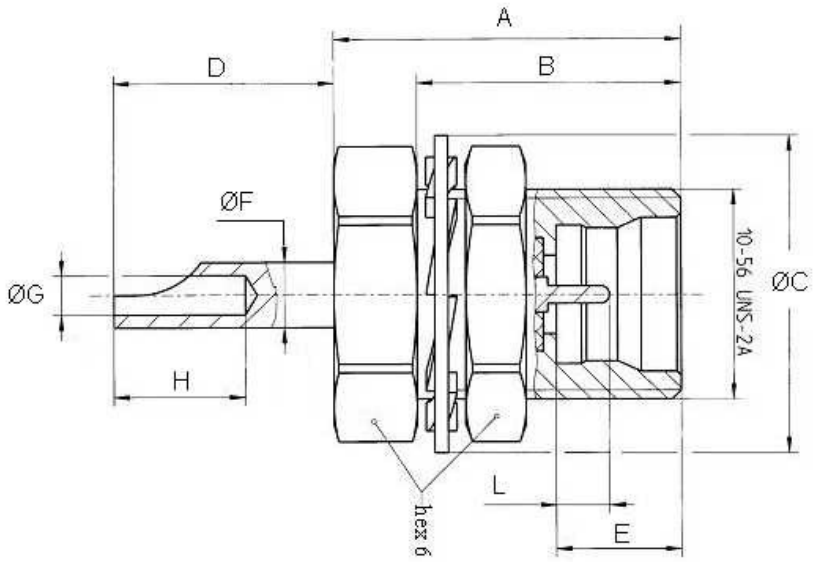
ELECTRICAL CHARACTERISTICS	VALUES	UNITS
The characteristics, values and units are specified in Table 1(a)		

MECHANICAL CHARACTERISTICS	VALUES	UNITS
The characteristics, values and units are specified in Table 1(a)		

OTHER CHARACTERISTICS	VALUES	UNITS
The characteristics, values and units are specified in Table 1(a)		

FIGURE 2(b) – VARIANTS (CONTINUED)

Variant 31 – SMP Bulkhead Receptacle, Limited Detent



Symbols	Dimensions mm	
	Min	Max
A	7.85	8
B	6	6.05
∅C	7.1	7.5
D	4.8	5.2
E	2.76	2.84
∅F	1.4	1.6
∅G	0.8	1
H	2.9	3.1
L	1.14	1.4

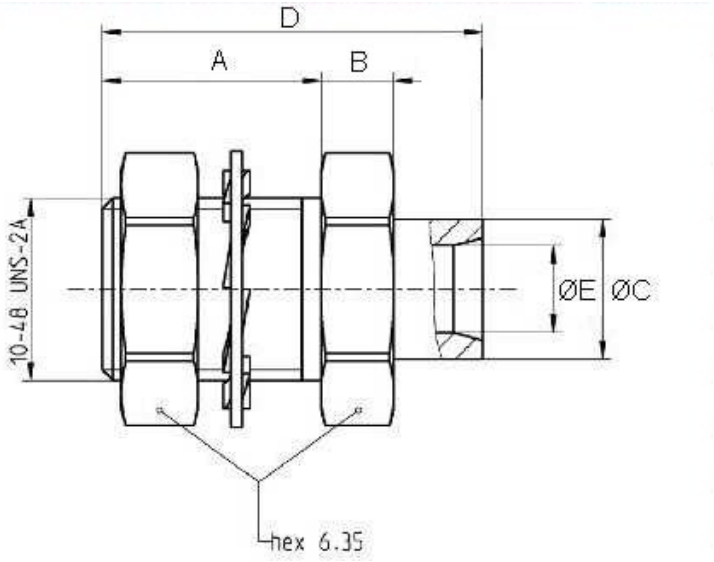
ELECTRICAL CHARACTERISTICS	VALUES	UNITS
The characteristics, values and units are specified in Table 1(a)		

MECHANICAL CHARACTERISTICS	VALUES	UNITS
The characteristics, values and units are specified in Table 1(a)		

OTHER CHARACTERISTICS	VALUES	UNITS
The characteristics, values and units are specified in Table 1(a)		

FIGURE 2(b) – VARIANTS (CONTINUED)

Variants 32 and 35 – SMP Bulkhead Receptacle, Limited Detent and Smooth Bore, for Semi-rigid Cables ∅2.16mm



Symbols	Dimensions mm	
	Min	Max
A	5.6	5.8
B	1.6	2.2
∅C	3.6	3.8
D	9.7	10.1
∅E	2.2	2.4

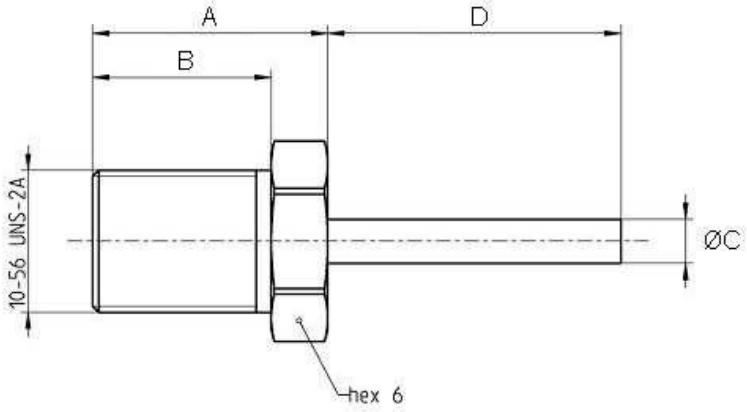
ELECTRICAL CHARACTERISTICS	VALUES	UNITS
The characteristics, values and units are specified in Table 1(a)		

MECHANICAL CHARACTERISTICS	VALUES	UNITS
The characteristics, values and units are specified in Table 1(a)		

OTHER CHARACTERISTICS	VALUES	UNITS
The characteristics, values and units are specified in Table 1(a)		

FIGURE 2(b) – VARIANTS (CONTINUED)

Variant 33 – SMP Bulkhead Receptacle, Limited Detent



Symbols	Dimensions mm	
	Min	Max
A	7.85	8
B	6	6.05
∅C	1.45	1.5
D	9.8	9.95

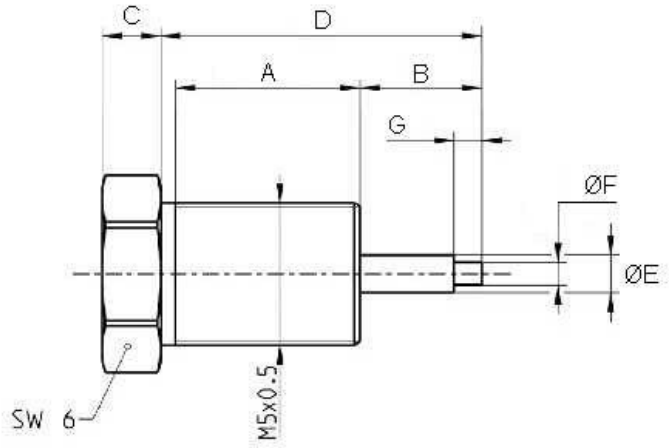
ELECTRICAL CHARACTERISTICS	VALUES	UNITS
The characteristics, values and units are specified in Table 1(a)		

MECHANICAL CHARACTERISTICS	VALUES	UNITS
The characteristics, values and units are specified in Table 1(a)		

OTHER CHARACTERISTICS	VALUES	UNITS
The characteristics, values and units are specified in Table 1(a)		

FIGURE 2(b) – VARIANTS (CONTINUED)

Variant 34 – SMP Bulkhead Receptacle, Limited Detent



Symbols	Dimensions mm	
	Min	Max
A	6.3	-
B	4	4.2
C	1.9	2.1
D	10.7	11.1
ØE	1.2	1.4
ØF	0.7	0.9
G	0.85	1.05

ELECTRICAL CHARACTERISTICS	VALUES	UNITS
The characteristics, values and units are specified in Table 1(a)		

MECHANICAL CHARACTERISTICS	VALUES	UNITS
The characteristics, values and units are specified in Table 1(a)		

OTHER CHARACTERISTICS	VALUES	UNITS
The characteristics, values and units are specified in Table 1(a)		