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RF CCAXIAL CONNECTORS, TYPE SMA 2.9, 50 OHMS (FEMALE CONTACT) ESCC Detail Specification No. 3402/022

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APPENDICES (Applicable to specific Manufacturers only) None.



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1. GENERAL

1.1 SCOPE

This specification details the ratings, physical and electrical characteristics, test and inspection data for RF Coaxial Connectors, Type SMA 2.9, 50 Ohms (Female Contact). It shall be read in conjunction with ESCC Generic Specification No. 3402, the requirements of which are supplemented herein.

1.2 <u>TYPE VARIANTS</u>

A list of the type variants of the connectors specified herein, which are also covered by this specification, is given in Table 1(a).

For each type variant, the full electrical and physical characteristics are given in individual Figures 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 as scheduled in Table 1(b).

1.4 PARAMETER DERATING INFORMATION (FIGURE 1)

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).

1.6 STANDARD TEST CONNECTOR INTERFACE

Whenever gauges are required for mating with the connectors under test, their physical dimensions shall be in accordance with those specified in Figure 3.



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TABLE 1(a) - TYPE VARIANTS

VARIANT	DESCRIPTION (1)
01	Straight Jack, Solder Type, for Microporous Semi-Rigid Cable Ø2.20mm (0.085")
02	Straight Jack, Solder Type, for Microporous Semi-Rigid Cable Ø3.58mm (0.141")
03	Screw Jack Receptacle for 0.3mm dia. Pin
04	Square Flange Jack Receptacle for 0.3mm dia. Pin
05	Adjustable Square Flange Jack Receptacle with cylindrical contact

NOTES

1. Each Variant is detailed in figure 2(b).

TABLE 1(b) - MAXIMUM RATINGS

No.	CHARACTERISTICS	SYMBOL	MAXIMUM RATINGS	UNIT	REMARKS
1	Power	Р	See Figures 1(a) and 1(b)	W	For information
2	Nominal Impedance	Z	50	Ω	-
3	Frequency Range	f	See Figure 2(b)	GHz	-
4	Dielectric Withstanding Voltage at ambient pressure	V _{dw}	See Figure 2(b)	Vrms	Voltage Proof Test. At sea level
5	Dielectric Withstanding Voltage at low pressure	V _{lp}	10% of V _{dw}	Vrms	At 44mb
6	Rated Operating Voltage	V _{op}	50% of V _{dw}	Vrms	-
7	Corona Level	V _{co}	8.5% of V _{dw}	Vrms	-
8	Operating Temperature Range	T _{op}	See Figure 2(b)	°C	-
9	Storage Temperature Range	T _{stg}	As per Operating Temperature Range	°C	-



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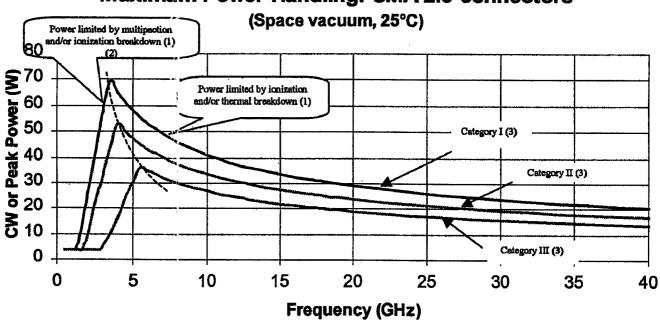
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FIGURE 1 - PARAMETER DERATING INFORMATION

FIGURE 1(a) - POWER VERSUS FREQUENCY

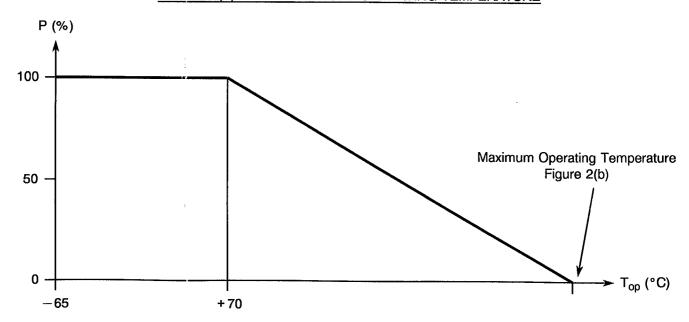
Maximum Power Handling: SMA 2.9 connectors



NOTES:

- 1. Load VSWR is better than 1.30:1.
- 2. The part of the curve limited by multipaction takes into account a 6dB margin.
- 3. See Figure 2(b) for applicability of power handling categories to the different variants.

FIGURE 1(b) - POWER VERSUS OPERATING TEMPERATURE



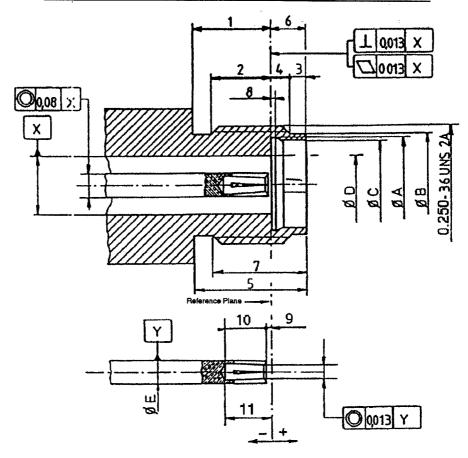


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FIGURE 2 - PHYSICAL DIMENSIONS

FIGURE 2(a) - CONNECTOR INTERFACE - FEMALE CONTACT



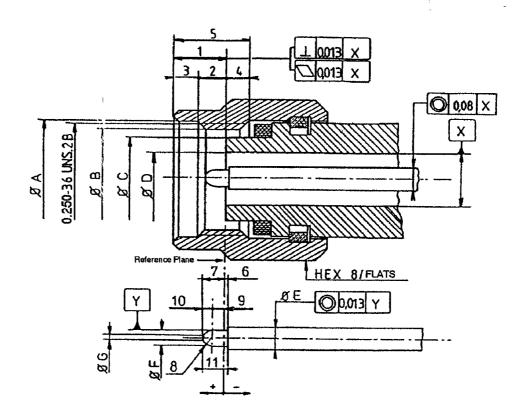
SYMBOL	MILLIM	ETRES	NOTEO
STIVIBOL	MIN.	MAX.	NOTES
1	3.82	4.32	
2	2.87	3.27	
3	0.65	0.95	
4	0.93	1.33	
5	5.8	6.2	
6	1.88	1.98	
7	4.85	5.15	
8	0.3	0.5	
9	0.0	0.08	
10	2.4	2.6	
11	2.4	2.68	
ØA	4.8	5.0	
⊘B	5.3	5.35	
⊘C	4.6	4.63	
ט⊘	2.905	2.945	
ØE	1.26	1.28	



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FIGURE 3 - STANDARD TEST CONNECTOR INTERFACE - MALE CONTACT



SYMBOL	MILLIM	ETRES	NOTES
STIVIBOL	MIN.	MAX.	NOTES
1	2.63	3.25	
2	1.58	2.2	
3	0.75	1.15	
4	0.85	1.47	
5	3.8	4.2	
6	0.0	0.08	
7,	1.22	1.4	
8	R 0.8	R 0.9	Radius
9	0.493	0.784	
10	0.616	7.27	
11	1.3	1.4	
ØA	6.6	6.7	
ØB	5.59	-	
⊘C	4.55	4.58	
ØD	2.905	2.94	
ØE	1.26	1.28	
ØF	0.92	0.94	
ØĠ	0.2	0.34	_



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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 for RF Coaxial Connectors.
- (b) MIL-G-45204, Gold Plating, Electrodeposited.

3. TERMS, DEFINITIONS, ABBREVIATIONS, SYMBOLS AND UNITS

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

In addition the following shall apply:-

V_{dw} Dielectric Withstanding Voltage at ambient pressure (sea level)

V_{lp} Dielectric √/ithstanding Voltage at low pressure (44mb)

V_{co} Corona Level Voltage R_i Insulation Resistance

I_L Leakage Carrent.

4. **REQUIREMENTS**

4.1 GENERAL

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

Deviations from the applicable 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 <u>Deviations from Special In-process Controls</u>

None.

4.2.2 <u>Deviations from Final Production Tests (Chart II)</u>

None.

4.2.3 <u>Deviations from Burn-in Tests (Chart III)</u>

Not applicable.

4.2.4 <u>Deviations from Qualification Tests (Chart IV)</u>

None.

4.2.5 Deviations from Lot Acceptance Tests (Chart V)

None.



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4.3 <u>MECHANICAL REQUIREMENTS</u>

4.3.1 <u>Dimension Check</u>

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 Tarque

The requirements for testing of the coupling proof torque are specified in Section 9 of ESCC Generic Specification No. 3402. The applied torque shall be 170N.cm.

4.3.4 <u>Cable Retention Force</u>

The requirements for testing of the cable retention force are specified in Section 9 of ESCC Generic Specification No. 3402. Figure 2(b) specifies the values for axial loads. Torque shall be applied as follows:-

4.3.4.1 Flexible Cables

Flexible cables shall be rotated 180° in both directions. Rotational movement shall be applied at 15cm from the connector.

4.3.4.2 Semi-rigid Cables

The torque value shall be as follows:-

11.28N.cm 2.20mm (.085") semi-rigid cable 38.85N.cm 3.58mm (.141") semi-rigid cable.

4.3.5 Mating and Unmating Forces

The applicable measurement requirements are specified in Section 9 of ESCC Generic Specification No. 3402. The maximum torque during mating and unmating shall not exceed 23N.cm.

Whenever a test is performed on mated pairs of connectors, the pairs shall be torqued at 80-115N.cm.

4.3.6 Endurance

The applicable test requirements are specified in Section 9 of ESCC Generic Specification No. 3402. The test conditions shall be as follows:-

(a) Number of cycles : 500 for qualification; 100 for lot acceptance.

(b) Rate : 12 cycles maximum/minute.

4.3.7 Residual Magnetism

The applicable measurement requirements are specified in Section 9 of ESCC Generic Specification No. 3402. Residual magnetism is not applicable to stainless steel connectors.



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4.3.8 Contact Engagement and Separation Forces

The requirements for these measurements are specified in Section 9 of ESCC Generic Specification No. 3402 and apply to female contacts only.

(a) Oversize Pin

Steel test pin diamater

: 0.95/0.955mm.

Insertion depth

: 0.76/1.14mm.

Number of insertions

: 3.

(b) Engagement Force Test (Maximum Diameter Test Pin)

Steel test pirediameter

: 0.94/0.946mm.

Engagement Lepth

: 1.27/1.9mm.

Engagement force

: 1380g max.

(c) Separation Force Test (Minimum Diameter Test Pin)

Steel test pin diameter

: 0.89/0.902 mm.

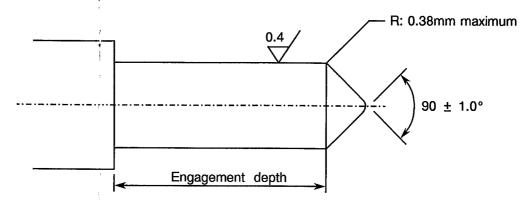
Separation depth

: 1.27/1.9 mm.

Separation force

: 28g min.

FIGURE 4 - TEST PIN CONFIGURATION



4.3.9 Contact Retention

The requirements for this test are specified in Section 9 of ESCC Generic Specification No. 3402. The test conditions are given in Figure 2(b). After testing, the connector interface dimensions 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.



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4.4.1 <u>Passivated Amagnetic Stainless Steel Connectors</u>

(a) Shell, Coupling Nut

Material

Amagnetic stainless steel, electro-passivated

(b) Centre Contact

Material

Beryllium copper

Under plate

Nickel, 2.0 µm minimum

Plating:

Gold, 1.3 µm minimum, Type II of MIL-G-45204

(c) Inseres

Mater al

ULTEM 1000

(d) Gaskets

Material

Silicone Rubber

(d) Accessories

- Crimping or soldering elements

Material

Brass or beryllium copper

Underplate Plating Copper, 0.5 µm minimum Silver, 5.0 µm minimum

- Insert ring

Material

Plating

Brass

Underplate

Nickel, 2.0 μm minimum Gold, 1.3 μm minimum

- Washers

Beryllium copper

Material Plating

Nickel, 2.0 µm 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) Characteristics.
- (c) 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:-

	<u>340202201</u> E	3
Detail Specification Number		ſ
Type Variant (see Table 1(a))		١
Testing Level —		



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4.5.3 Characteristics

Characteristics cover the type of plating/material. Each component shall be marked in respect of:-

- (a) Type of plating/material (shell).
- (b) Number.

The information shall be constituted as follows:

Type of plating/material (see Para. 4.5.3	3.1)
Number (shall always be 01)	

4.5.3.1 Type of Plating/Material

The type of plating material shall be identified by means of the following code:-

CODE	TYPE OF PLATING/MATERIAL	PARA.
3	Passivated amagnetic stainless steel	4.4.1

NOTE: Codes 1, 2 and 4 are not used.

4.5.4 Traceability Information

Each component shall be marked in respect of traceability information in accordance with the requirements of ESCC Basic Specification No. 21700.

4.5.5 Marking of Small Components

When it is considered that the component is too small to accommodate the marking as specified above, as much as space permits shall be marked. The order of precedence shall be as specified in Para. 4.5.1. The marking information in full shall accompany each component in its primary package.

4.6 <u>ELECTRICAL MEASUREMENTS</u>

4.6.1 <u>Electrical Measurements at Room Temperature</u>

The parameters to be measured in respect of electrical characteristics are scheduled in Table 2. Unless otherwise specified, the measurements shall be performed at $T_{amb} = +22 \pm 3$ °C.

4.6.2 <u>Electrical Measurements at High and Low Temperatures (Table 3)</u>

Not applicable.

4.6.3 Circuits for Electrical Measurements

Not applicable.

4.7 BURN-IN TEST (TABLES 4 AND 5)

Not applicable.



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TABLE 2 - ELECTRICAL MEASUREMENTS AT ROOM TEMPERATURE

No.	CHARACTERISTICS	SYMBOL	SPEC. AND/OR TEST METHOD	TEST CONDITIONS	LIMITS		UNIT
					MIN	MAX	ONH
1	Insulation Resistance	R _i	ESCC 3402, Para. 9.1	500 Vdc	5000	-	МΩ
2	Leakage Current	ΙL	ESCC 3402, Para. 9.2	Per Voltage Proof test voltage in Fig. 2(b)	į	2.0	mA

TABLES 3, 4 AND 5

Not applicable.

4.8 ENVIRONMENTAL AND ENDURANCE TESTS

4.8.1 <u>Measurements and Inspections on Completion of Environmental Tests</u>

The parameters to be measured on completion of environmental tests are scheduled in Table 6 of this specification. Unless otherwise stated, the measurements shall be performed at $T_{amb} = +22 \pm 3$ °C.

4.8.2 <u>Measurements and Inspections at Intermediate Points during Endurance Tests</u>

Not applicable.

4.8.3 <u>Measurements and Inspections on Completion of Endurance Tests</u>

The parameters to be measured on completion of endurance tests are scheduled in Table 6 of this specification. Unless otherwise stated, the measurements shall be performed at T_{amb} = +22 ±3 °C.

4.8.4 Conditions for Operating Life Test (Part of Endurance Testing)

Not applicable.

4.8.5 <u>Electrical Circuits for Operating Life Test</u>

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 shall be the maximum operating temperature as specified in Figure 2(b).



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

	ESCC GENERIC SF	PEC: NO. 3402	MEASUREMENTS A	AND INSPECTIONS		LIMITS		
NO.	ENVIRONMENTAL AND ENDURANCE TESTS (1)	TEST METHOD AND CONDITIONS	IDENTIFICATION	CONDITIONS	SYMBOL	MIN.	MAX.	UNIT
01	Coupling Proof Torque	Para. 9.4	Final Measurements Interface Dimensions Visual Examination	Para. 9.4 of ESCC 3402	-	Figure -	e 2(a) -	<u>-</u>
02	Mating and Unmating Forces	Para. 9.5	During Test Torque	Para. 4.3.5 of this spec.	-	-	23	N.cm
03	Seal Test	Para. 9.7	Hermeticity Leakage	Not applicable As applicable	-	- No Bu	- ubbles	-
04	External Visual Inspection	Para. 9.8	External Visual Inspection	Para. 9.8 of ESCC 3402	1		-	-
05	Contact Resistance	Para. 9.9	During Test Contact Resistance	Para. 9.9 of ESCC 3402 Centre Contact Shell	-	-	3.0 2.0	$m\Omega$
06	Vibration	Para. 9.10 Full Engagement	During Test Electrical Measurements Final Measurements	Last cycle in each direction No open or short circuits	-	-	-	-
:			Visual Examination Contact Resistance	No evidence of damage Para. 9.9 of ESCC 3402 Centre Contact	-	-	- 3.0	- mΩ
07	Shock or Bump	Para. 9.11 Full Engagement	Final Measurements Interface Dimensions Visual Examination Contact Resistance	No evidence of damage Para. 9.9 of ESCC 3402 Centre Contact		Figure - -	2(a) - 3.0	- - mΩ
08	Rapid Change of Temperature	Para. 9.12	Final Measurements Contact Resistance Leakage Current Visual Examination	After a recovery period of 24 ± 2 hrs Para. 9.9 of ESCC 3402 Centre Contact Table 2 Item 2	. يز.	-	3.0 2.0	mΩ mA
09	Climatic Sequence	Para. 9.13	During Test Dielectric Withstanding Voltage at low pressure (44mb) Final Measurements	Table 1(b) Item 5 After final Damp Heat cycle (within 1 to	$V_{ m lp}$		hover or kdown	-
			External Visual Inspection Insulation Resistance Leakage Current	24 hrs recovery) Para. 9.8 of ESCC 3402 Table 2 Item 1 Table 2 Item 2	։ R _i Լլ	- 200 -	- - 2.0	MΩ mA
10	Cable Retention Force	Faras. 9.14 and 4 3.4 of this spec.	During Test Continuity	-	-	-	-	-
11	Cabling and Crimping Capability	Para. 9.15	Visual Examination Dimensions	Para. 9.15 of ESCC 3402 Para. 9.15 of ESCC 3402	-		- a) & 2(b)	-
			Insulation Resistance Leakage Current	Table 2 Item 1 Table 2 Item 2	R _i I _L	5000 -	2.0	MΩ mA

NOTES: See page 17.



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TABLE 6 - MEASUREMENTS AND INSPECTIONS ON COMPLETION OF ENVIRONMENTAL AND ENDURANCE TESTS (CONT'D)

			ENDORANCE TESTS					
	ESCC GENERIC SF	PEC NO. 3402	MEASUREMENTS .	AND INSPECTIONS		LIN	MITS	
NO.	ENVIRONMENTAL AND ENDURANCE TESTS (1)	TEST METHOD AND CONDITIONS	IDENTIFICATION	CONDITIONS	SYMBOL	MIN.	MAX.	UNIT
12	VSWR or Reflection Coefficient	Para. 9.16	VSWR	Para. 9.16 of ESCC 3402	<u>-</u>	Figur	e 2(b)	-
13	Corona Level	Para. 9.17	Corona	Para. 9.17 of ESCC 3402	-	Table	I Item 7	-
14	Endurance	Paras. 9.18 and	Final Measurements Mating/Unmating Forces Contact Resistance Visual Examination	Para. 4.3.5 of this spec. Para 9.9 of ESCC 3402 Centre Contact Shell Para. 9.18 of ESCC 3402			23 4.0 3.0	N.cm mΩ mΩ -
15	RF Insertion Loss	Para. 9.19	Insertion Loss	Para. 9.19 of ESCC 3402	-	Figur	e 2(b)	dB
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	Not applicable	-	-	-	-
18	Soldering Proof	Para. 9.22	Final Measurements Interface Dimensions Mating/Unmating Forces Insulation Resistance Leakage Current Contact Resistance External Visual Inspection	Para. 4.3.5 of this spec. Table 2 Item 1 Table 2 Item 2 Para 9.9 of ESCC 3402 Centre Contact Shell Para. 9.8 of ESCC 3402	. Ri L	Figure - 5000 - - - -	2(b) 23 - 2.0 3.0 2.0	N.cm MΩ mA mΩ mΩ
19	RF Leakage	Para. 9.23	Leakage	Para. 9.23 of ESCC 3402	-	Figur	e 2(b)	dB
20	High Temperature Storage	Paras. 9.24 and 4.8.6 of this spec.	Final Measurements Mating/Unmating Forces Insulation Resistance Leakage Current Contact Retention Visual Examination Contact Resistance External Visual Inspection	Para. 4.3.5 of this spec. Table 2 Item 1 Table 2 Item 2 Para. 4.3.9 of this spec Para 9.9 of ESCC 3402 Centre Contact Shell Para. 9.8 of ESCC 3402	. Ri ↓	- 5000 - Para. - - - -	23 - 2.0 4.3.9 - - 8.0 7.5	N.cm MΩ mA - - mΩ mΩ
21	Permanence of Marking	Para. 9.27	Marking Permanence	Para. 9.27 of ESCC 3402	-	-	-	-
22	Plating Thickness (Hermetic Types Only)	Para. 9.8	Plating Thickness	Not Applicable	-		-	-

NOTES

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

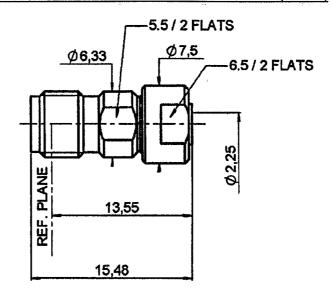


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FIGURE 2(b) - TYPE VARIANTS

VARIANT 01 - STRAIGHT JACK, SOLDER TYPE,
FOR MICROPOROUS SEMI-RIGID CABLE ⊘2.20mm (0.085")



All dimensions are in mm

ELECTRICAL CHARACTERISTICS	VALUES	UNITS
Frequency Range	0-40	GHz
Maximum VSWR	1.05 + 0.005 x f (GHz)	-
Maximum Insertion Loss	0.03 x √f (GHz)	dB
RF Leakage	-(90 -f(GHz))	dB
Dielectric Withstanding Voltage (Sea level) (Voltage Proof Test)	750	Vrms
Power Handling Category (Figure 1(a))	Category III	-

MECHANICAL CHARACTERISTICS	VALUES	UNITS
Minimum Centre Contact Retention Force (axial)	27	N
Minimum Centre Contact Retention Torque	Not applicable	N.cm
Minimum Cable Retention Force	200	N
Minimum Cable Retention Torque Value	11.28	N.cm
Maximum weight	3.4	g

OTHER CHARACTERISTICS	VALUES	UNITS
Rapid Change of Temperature - peak value	165	°C
Operating Temperature Range	-65 to +165	°C
Maximum Leakage (panel sealed connectors)	Not applicable	
Maximum Leakage (hermetically sealed connectors)	Not applicable	•
Solderability	Applicable	-
Soldering proof	Not applicable	-
Cables used	Microporous semi-rigid cable ⊘ 2.2mm (0.085"; P/N UT 85-LL)	-

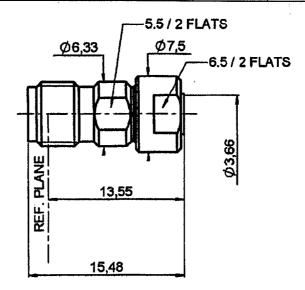


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FIGURE 2(b) - TYPE VARIANTS

VARIANT 02 - STRAIGHT JACK, SOLDER TYPE, FOR MICROPOROUS SEMI-RIGID CABLE ⊘3.58mm (0.141")



All dimensions are in mm

ELECTRICAL CHARACTERISTICS	VALUES	UNITS
Frequency Range	0-40	GHz
Maximum VSWR	1.05 + 0.005 x f (GHz) *	-
Maximum Insertion Loss	0.03 x √f (GHz)*	dB
RF Leakage	-(90 -f(GHz))*	dB
Dielectric Withstanding Voltage (Sea level) (Voltage Proof Test)	750	Vrms
Power Handling Category (Figure 1(a))	Category I	-

MECHANICAL CHARACTERISTICS	VALUES	UNITS
Minimum Centre Contact Retention Force (axial)	27	N
Minimum Centre Contact Retention Torque	Not applicable	N.cm
Minimum Cable Retention Force	270	N
Minimum Cable Retention Turque Value	38.85	N.cm
Maximum weight	3.1	g

OTHER CHARACTERISTICS	VALUES	UNITS
Rapid Change of Temperature - peak value	165	°C
Operating Temperature Range	-65 to +165	°C
Maximum Leakage (panel sealed connectors)	Not applicable	-
Maximum Leakage (hermetically sealed connectors)	Not applicable	-
Solderability	Applicable	_
Soldering proof	Not applicable	-
Cables used	Microporous semi-rigid cable ⊘ 3.85mm (0.141"; P/N UT 141-LL)	-

^{*} Limited up to 32 GHz by cable

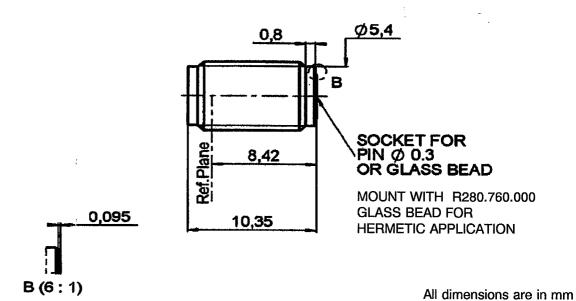


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FIGURE 2(b) - TYPE VARIANTS

VARIANT 03 - SCREW JACK RECEPTACLE FOR 0.3mm DIA. PIN



ELECTRICAL CHARACTERISTICS	VALUES	UNITS
Frequency Range	0-40	GHz
Maximum VSWR	1.05 + 0.005 x f (GHz)	-
Maximum Insertion Loss	0.03 x √f (GHz)	dB
RF Leakage	-(90 -f(GHz))	dB
Dielectric Withstanding Voltage (Sea level) (Voltage Proof Test)	750	Vrms
Power Handling Category (Figure 1(a))	Category III	-

MECHANICAL CHARACTERISTICS	VALUES	UNITS
Minimum Centre Contact Retention Force (axial)	27	N
Minimum Centre Contact Retention Torque	Not applicable	N.cm
Minimum Cable Retention Force	Not applicable	N
Minimum Cable Retention Torque Value	Not applicable	N.cm
Maximum weight	2	g

OTHER CHARACTERISTICS	VALUES	UNITS
Rapid Change of Temperature - peak value	165	°C
Operating Temperature Range	-65 to +165	°C
Maximum Leakage (panel sealed connectors)	Not applicable	-
Maximum Leakage (hermetically sealed connectors)	Not applicable	-
Solderability	Not applicable	-
Soldering proof	Not applicable	-
Cables used	Not applicable	•

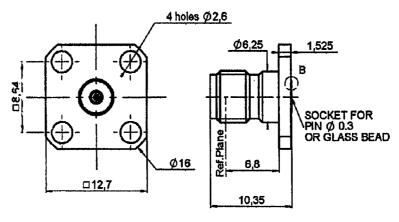


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FIGURE 2(b) - TYPE VARIANTS

VARIANT (14 - SQUARE FLANGE JACK RECEPTACLE FOR 0.3mm DIA. PIN





MOUNT WITH R280.760.000 GLASS BEAD FOR HERMETIC APPLICATION

All dimensions are in mm

ELECTRICAL CHARACTERISTICS	VALUES	UNITS
Frequency Range	0-40	GHz
Maximum VSWR	1.05 + 0.005 x f (GHz)	-
Maximum Insertion Loss	0.03 x √f (GHz)	dB
RF Leakage	-(90 -f(GHz))	dB
Dielectric Withstanding Voltage (Sea level) (Voltage Proof Test)	750	Vrms
Power Handling Category (Figure 1(a))	Category III	-

MECHANICAL CHARACTERISTICS	VALUES	UNITS
Minimum Centre Contact Retention Force (axial)	27	N
Minimum Centre Contact Retention Torque	Not applicable	N.cm
Minimum Cable Retention Force	Not applicable	N
Minimum Cable Retention Torque Value	Not applicable	N.cm
Maximum weight	3.3	g

OTHER CHARACTERISTICS	VALUES	UNITS
Rapid Change of Temperature - peak value	165	°C
Operating Temperature Range	-65 to +165	°C
Maximum Leakage (panel sealed connectors)	Not applicable	-
Maximum Leakage (hermetically sealed connectors)	Not applicable	-
Solderability	Not applicable	-
Soldering proof	Not applicable	_
Cables used	Not applicable	-

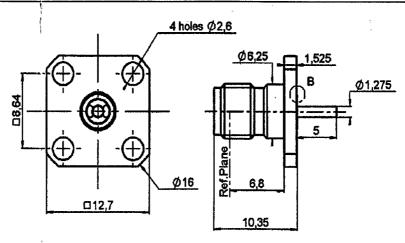


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FIGURE 2(b) - TYPE VARIANTS

VARIANT 05 - ADJUSTABLE SQUARE FLANGE JACK RECEPTACLE WITH CYLINDRICAL CONTACT





All dimensions are in mm

B (6:1)

ELECTRICAL CHARACTERISTICS	VALUES	UNITS
Frequency Range	0-40	GHz
Maximum VSWR	1.05 + 0.005 x f (GHz)	-
Maximum Insertion Loss	0.03 x √f (GHz)	dB
RF Leakage	-(90 -f(GHz))	dB
Dielectric Withstanding Voltage (Sea level) (Voltage Proof Test)	750	Vrms
Power Handling Category (Figure 1(a))	Category I	-

MECHANICAL CHARACTERISTICS	VALUES	UNITS
Minimum Centre Contact Retention Force (axial)	27	N
Minimum Centre Contact Retention Torque	Not applicable	N.cm
Minimum Cable Retention Force	60	N
Minimum Cable Retention Torque Value	Not applicable	N.cm
Maximum weight	5.7	g

OTHER CHARACTERISTICS	VALUES	UNITS
Rapid Change of Temperature - peak value	165	°C
Operating Temperature Range	-65 to +165	°C
Maximum Leakage (panel sealed connectors)	Not applicable	_
Maximum Leakage (hermetically sealed connectors)	Not applicable	-
Solderability	Applicable	•
Soldering proof	Not applicable	-
Cables used	SHF 5 MS	-