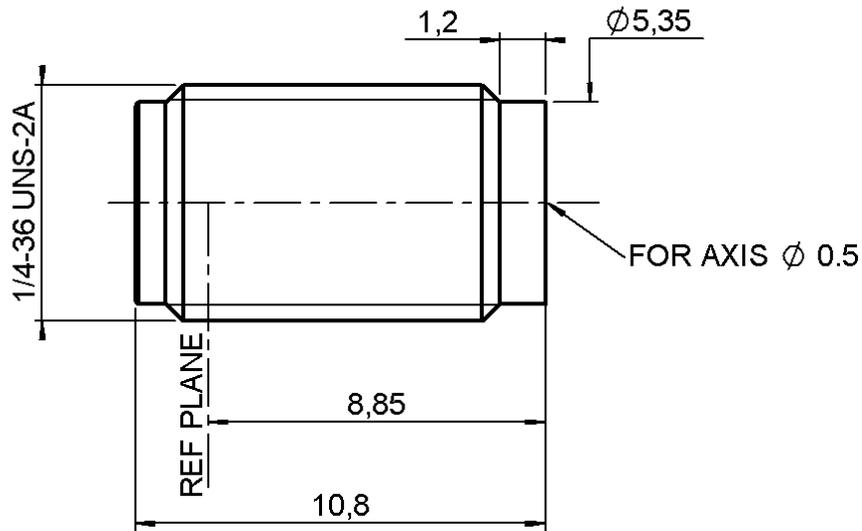


UNIVERSAL SCREW JACK RECEPTACLE

FOR 0.5 MM DIA

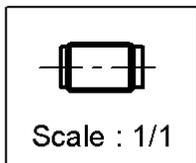
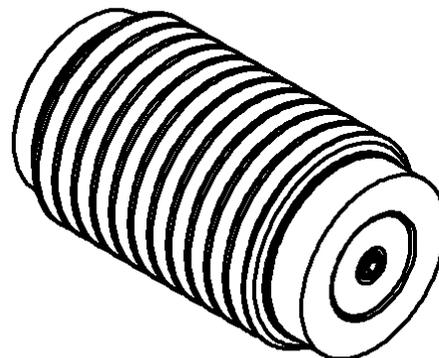
R125.556.031

Series : SMA

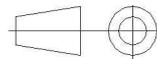


Se monte en application hermetique avec la perle de verre 280.755 (voir page 3 et 4)

Mount it with 280.755 Glass bead for hermetic application (see pages 3 to 4)



All dimensions are in mm.



| COMPONENTS | MATERIALS | PLATINGS (µm) |
|----------------|------------------|------------------------|
| BODY | STAINLESS STEEL | PASSIVATED. |
| CENTER CONTACT | BERYLLIUM COPPER | GOLD 1.3 OVER NICKEL 2 |
| OUTER CONTACT | - | |
| INSULATOR | PTFE | |
| GASKET | - | |
| OTHERS PARTS | - | |
| - | - | |
| - | - | |

Issue : 0431 A

In the effort to improve our products, we reserve the right to make changes judged to be necessary.



UNIVERSAL SCREW JACK RECEPTACLE

R125.556.031

FOR 0.5 MM DIA

Series : SMA

PACKAGING

SPECIFICATION

| Standard | Unit | Other |
|------------|-------------------|-------------------|
| 100 | 'W' option | Contact us |

ELECTRICAL CHARACTERISTICS

ENVIRONMENTAL

| | | |
|---------------------------------|--------------|------------------------------|
| Impedance | | 50 Ω |
| Frequency | | 0-18 GHz |
| VSWR | 1.1 + | 0.010 x F(GHz) Maxi |
| Insertion loss | | 0.07* √F(GHz) dB Maxi |
| RF leakage | - (| 60 - F(GHz)) dB Maxi |
| Voltage rating | | 500 Veff Maxi |
| Dielectric withstanding voltage | | 1000 Veff mini |
| Insulation resistance | | 5000 MΩ mini |

| | |
|-----------------------|---------------------|
| Operating temperature | -65/+125 ° C |
| Hermetic seal | NA Atm.cm3/s |
| Panel leakage | NA |

OTHERS CHARACTERISTICS

Assembly instruction

Others :

* Coaxial Transmission Line Only

MECHANICAL CHARACTERISTICS

| | | |
|----------------------------|--|------------------------|
| Center contact retention | | |
| Axial force – Mating end | | 27 N mini |
| Axial force – Opposite end | | 27 N mini |
| Torque | | 2.8 N.cm mini |
| Recommended torque | | |
| Mating | | NA N.cm |
| Panel nut | | 190 N.cm |
| Mating life | | 500 Cycles mini |
| Weight | | 1.611 g |

Issue : 0431 A

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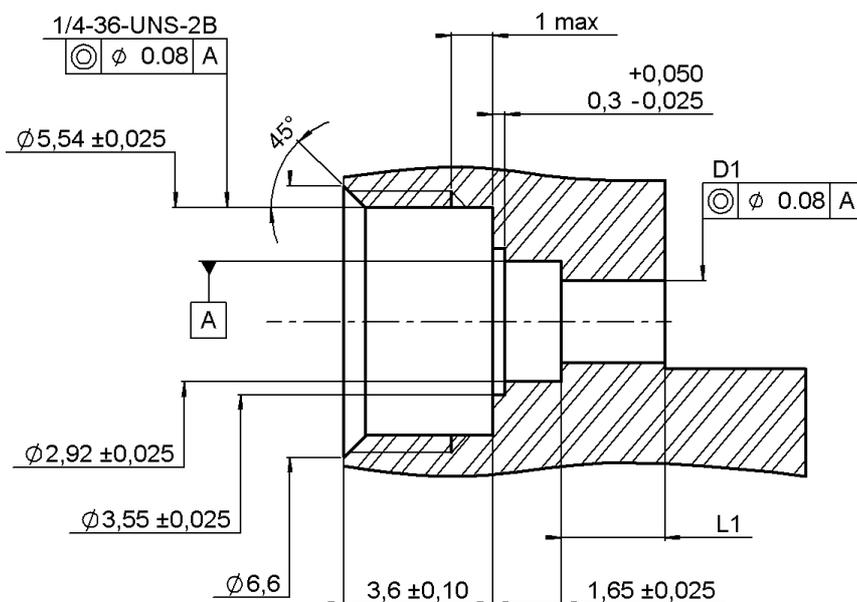
RADIALL®

**UNIVERSAL SCREW JACK RECEPTACLE
FOR 0.5 MM DIA**

R125.556.031

Series : SMA

MOUNTING HOLE :



THE D1 AND L1 DIMENSIONS HAVE TO BE DETERMINED ACCORDING TO EACH USING SITUATION.

WE ADVISE IN THE TWO FOLLOWING SITUATIONS : (SEE PAGE 4/4)

- USING OF THE R280.469.010 REMOVABLE SOCKET :
D1 = 2 +/- 0.02 L1 = 2.5 +/- 0.1
- THE BEAD PIN IS DIRECTLY WELDED ON THE TRACK.
D1 = 1.08 +/- 0.02 L1 = 1 a 4 ACCORDING TO THE CUSTOMER'S DESIGN CRITERIA.

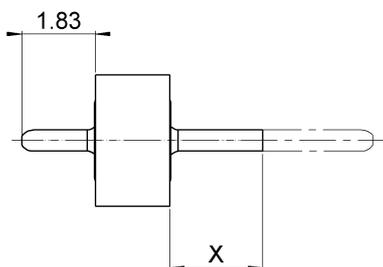
Issue : 0431 A

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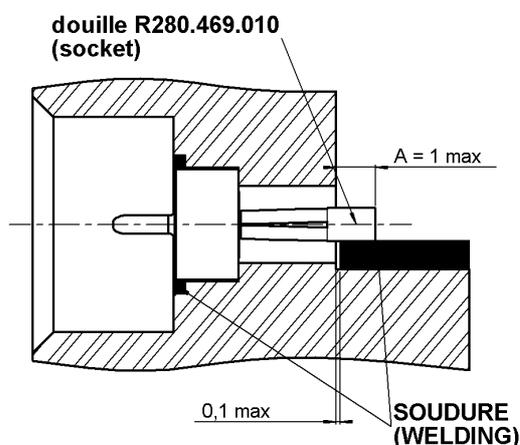


UNIVERSAL SCREW JACK RECEPTACLE**R125.556.031****FOR 0.5 MM DIA**

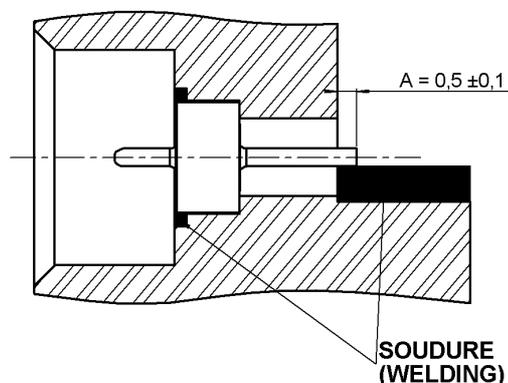
Series : SMA

MOUNTING

$$X = 2 \pm 0.05$$



$$X = L1 + A$$

**GLASS BEAD**

- 1- Adjust X by cutting the pin if necessary.
- 2- Introduce the glass bead into its housing as here above (with the mounted socket)
- 3- Weld the ring by putting a welding wire in the groove.
- 4- Weld the pin (or socket) on the track. Beware of putting too much welding

IMPORTANT : for maximum RF characteristics the link track/pin must be as thin as possible.

We advise you to respect rigorously the A dimension, by welding accurately the bead pin directly on the track (right drawing).

CONNECTOR

-Screw the connector into the housing. Tighten it up to 190 cmN + ou -10 cmN

(use special tooling set RADIALL R282.341.010).

Issue : 0431 A

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