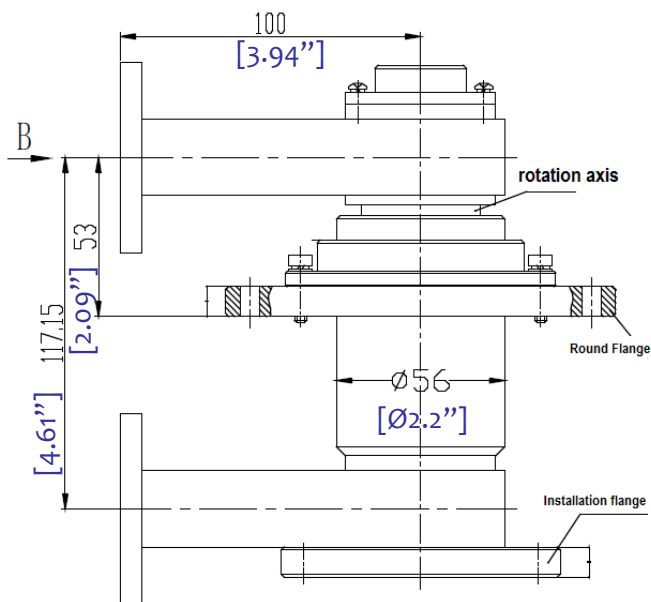
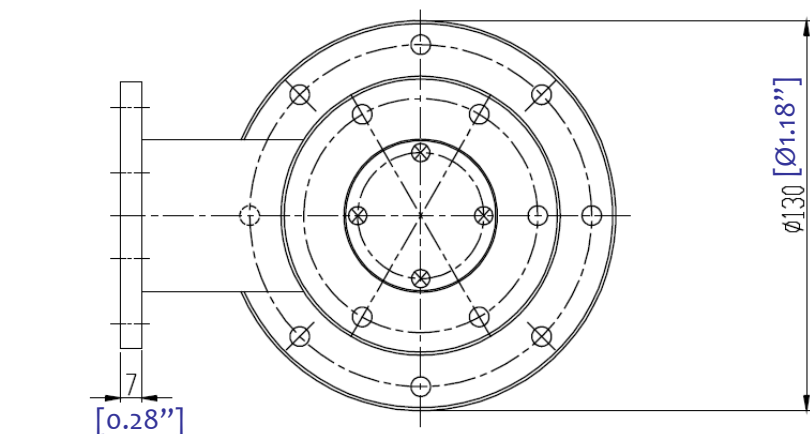


# HIGH POWER WR159 WAVEGUIDE “U” SHAPE SINGLE CHANNEL ROTARY JOINT --- RFWRJ159SU



| 1.0 | Mechanical Specifications |                                    |
|-----|---------------------------|------------------------------------|
| 1.1 | Waveguide type            | Rectangular Waveguide <b>WR159</b> |
| 1.2 | Flange type               | CPRF FLAT (Other available)        |
| 1.3 | Flange Holes              | Through                            |
| 1.4 | Basis-material            | Alloyed Copper                     |
| 1.5 | Internal Finish           | Sliver Plating                     |
| 1.6 | External Finish           | Corrosion protected paint          |

| 2.0 | Environment specifications |                                   |
|-----|----------------------------|-----------------------------------|
| 2.1 | Operation Temp.            | -30°C~+70°C                       |
| 2.2 | Storage Temp.              | -50°C~+125°C                      |
| 2.3 | Altitude                   | 45000 ft                          |
| 2.4 | Vibration                  | 10g rms (15 degree 2KHz)          |
| 2.5 | Humidity                   | 100% RH at 35c, 95%RH at 40 deg c |
| 2.6 | Shock                      | 20G for 11msc                     |

| 3.0 | Electrical Specifications  |                                                    |
|-----|----------------------------|----------------------------------------------------|
| 3.1 | Frequency Range            | 4.64~7.05GHz (BW<=600MHz)<br>5.2-5.8GHz (As shown) |
| 3.2 | Max. Insertion Loss/IL WOW | 0.2dB/0.1dB                                        |
| 3.3 | Max. VSWR / VSWR WOW       | 1.15:1 /1.02 :1                                    |
| 3.4 | Power Handling(average)    | 1000W(CW)<br>100KW peak (1% 13.5us)                |
| 3.5 | Pressure                   | 10PSI                                              |

|                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |                    |                           |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--------------------|---------------------------|
| PAGE 1 OF 1                                                                                                                                                                                                                                                                                                                                                                                                                              |  | DATE               | Feb 17 <sup>th</sup> 2011 |
| <small>PROPRIETARY INFORMATION<br/>THE INFORMATION CONTAINED IN THIS DOCUMENT IS THE PROPERTY OF RF-LAMBDA EXCEPT AS SPECIFICALLY AUTHORIZED IN WRITINGS BY RF-LAMBDA. THE HOLDER OF THIS DOCUMENT SHALL KEEP ALL INFORMATION CONTAINED HEREIN CONFIDENTIAL AND SHALL PROTECT SAME IN THE WHOLE OR IN PART FROM DISCLOSURE AND DISSEMINATION OF ALL THIRD PARTIES AND SHALL USE SAME FOR OPERATING AND MAINTENANCE PURPOSES ONLY</small> |  | DESIGN             | RFPC                      |
|                                                                                                                                                                                                                                                                                                                                                                                                                                          |  | RF-LAMBDA          | RFPC                      |
|                                                                                                                                                                                                                                                                                                                                                                                                                                          |  | CAD MODEL REVISION | 11                        |
|                                                                                                                                                                                                                                                                                                                                                                                                                                          |  | ASSEMBLY REVISION  | V55D5                     |
|  <b>RFWRJ159SU<br/>WAVEGUIDE<br/>ROTARY JOINT</b>                                                                                                                                                                                                                                                                                                   |  | ASSEMBLY NAME      | RFLVR05                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                          |  | DRAWING NUMBER     | D05-1                     |
| www.rflambda.com                                                                                                                                                                                                                                                                                                                                                                                                                         |  | SIZE               | LT                        |
| RF-LAMBDA                                                                                                                                                                                                                                                                                                                                                                                                                                |  | SHEETS             | 1 OF 1                    |