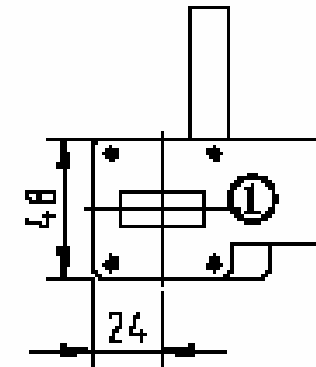
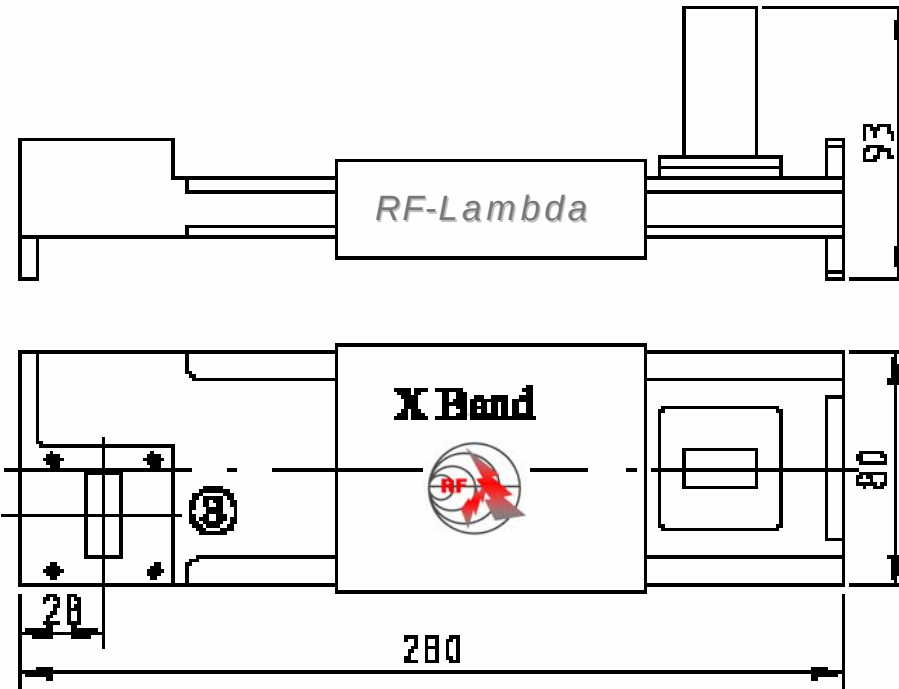
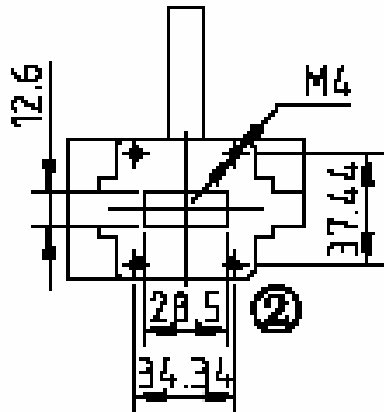


# HIGH POWER 4 PORT WAVEGUIDE CIRCULATOR– RFWHC37B



(Unit: mm)

| 3.0 | Electrical Specifications |                                   |
|-----|---------------------------|-----------------------------------|
| 3.1 | Frequency Range           | 5.05~10.0GHz                      |
| 3.2 | Bandwidth                 | 250MHz<br>(8.5~8.75 GHz as shown) |
| 3.3 | Max. VSWR                 | 1.20:1                            |
| 3.4 | Insertion Loss            | 0.45dB (max)                      |
| 3.5 | Isolation                 | 23dB                              |
| 3.6 | Forward Power             | 240W (CW)                         |
| 3.7 | Peak Power                | 200KW                             |

| 1.0 | Mechanical Specifications |                                      |
|-----|---------------------------|--------------------------------------|
| 1.1 | Waveguide type            | Rectangular Waveguide WR112          |
| 1.2 | Flange type               | FBP-84                               |
| 1.3 | Flange Holes              | Through                              |
| 1.4 | External Body Finish      | Body painted with black epoxy enamel |

| 2.0 | Environment specifications |                                   |
|-----|----------------------------|-----------------------------------|
| 2.1 | Operation Temp.            | -30°C~+55°C                       |
| 2.2 | Storage Temp.              | -45°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                     |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                |
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| PAGE 1 OF 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | DATE Jun 15 <sup>th</sup> 2006 |
| <small>PROPRIETARY INFORMATION<br/>THE INFORMATION CONTAINED IN THIS DOCUMENT IS THE PROPERTY OF RF-LAMBDA EXCEPT AS SPECIFICALLY AUTHORIZED IN WRITING 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><br> <b>RFWHC37B</b><br><b>WAVEGUIDE HIGH POWER 4 PORT CIRCULATOR</b><br><a href="http://www.rflambda.com">www.rflambda.com</a> | DESIGN<br>RFPC                 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | RF-LAMBDA<br>RFPC              |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | CAD MODEL REVISION<br>19       |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | ASSEMBLY REVISION<br>VS52      |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | ASSEMBLY NAME<br>RFLVR17       |
| DRAWING NUMBER<br>D05-1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                |
| RF-LAMBDA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | SIZE LT SHEETS 1 OF 1          |