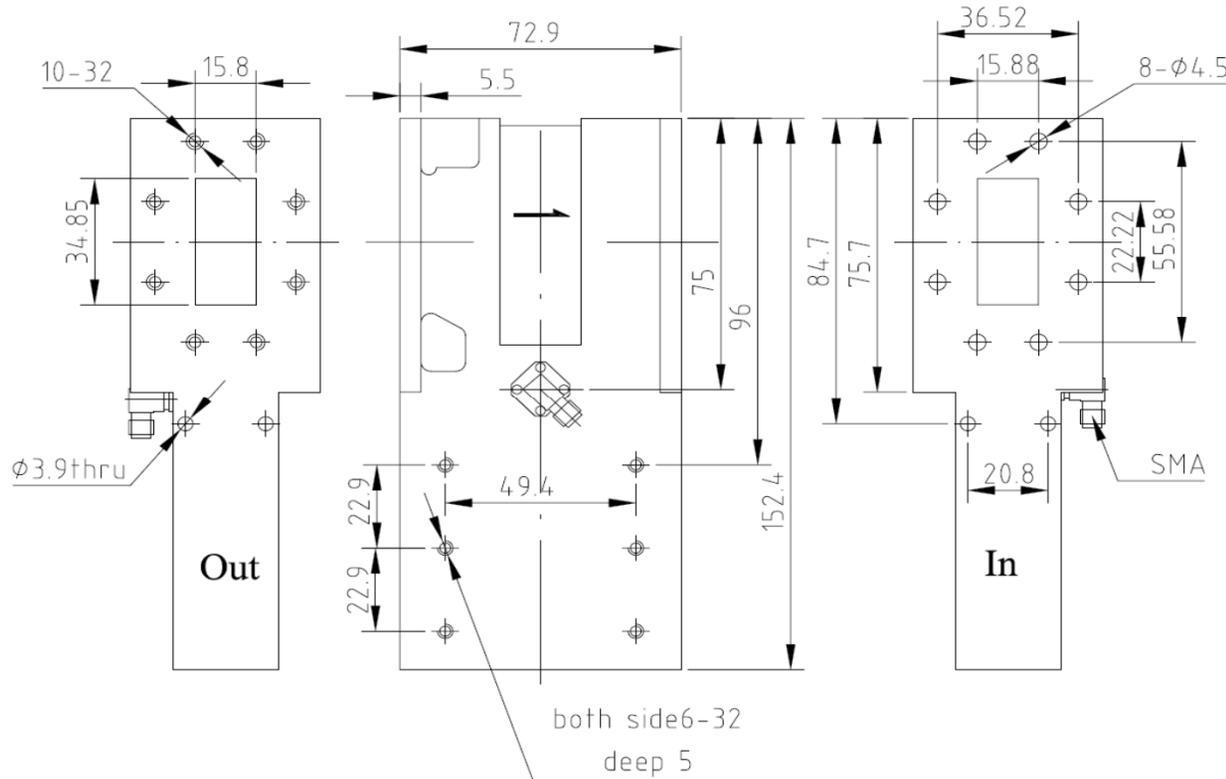


# WAVEGUIDE HIGH POWER ISOLATOR / CIRCULATOR WITH ANTENNA MONITOR COUPLER

--- RFWC137E

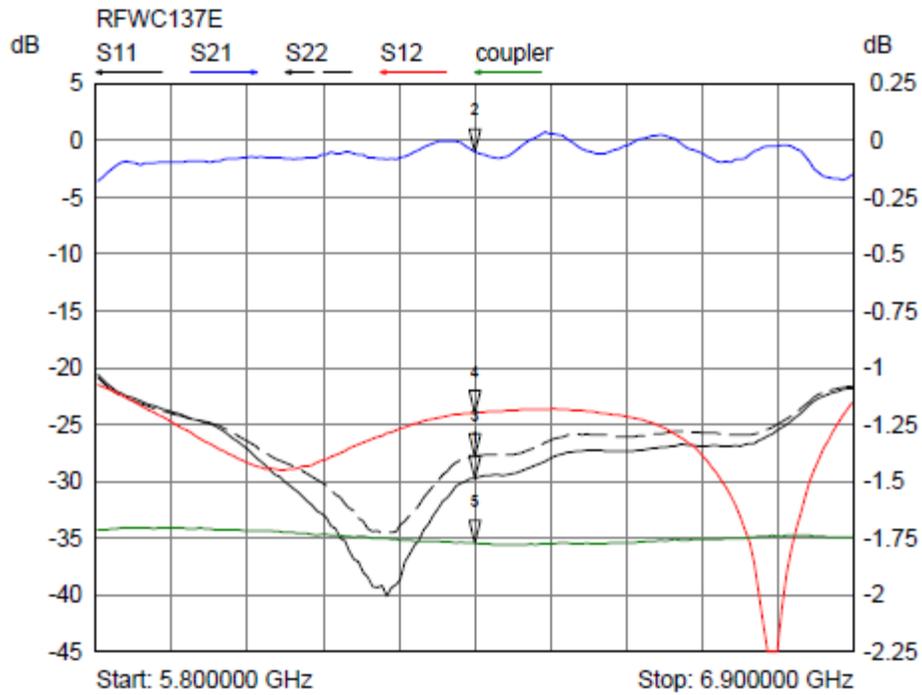


| 3.0 Electrical Specifications |   |
|-------------------------------|---|
| 3.1                           | Frequency Range 5.85-8.20GHz                      |
| 3.2                           | Bandwidth 200MHz (5.85-7.025GHz as shown)         |
| 3.3                           | VSWR 1.20 : 1                                     |
| 3.4                           | Insertion Loss 0.3dB Typ.                         |
| 3.5                           | Forward Power 400W (CW)                           |
| 3.6                           | Reverse Power 400W (CW)                           |
| 3.7                           | Reflected Power Loop Coupler Ratio -35dBc ± 1.0dB |

| 1.0 Mechanical Specifications |  |
|-------------------------------|--|
| 1.1                           | Waveguide type Rectangular Waveguide WR137                     |
| 1.2                           | Flange type CPRG, CPRF, COVER, CHOKE available                 |
| 1.3                           | Flange Holes Through   |
| 1.4                           | External Body Finish Body painted with gray/black epoxy enamel |

| 2.0 Environment specifications |  |
|--------------------------------|--|
| 2.1                            | Operation Temp. -25°C~+85°C                |
| 2.2                            | Storage Temp. -40°C~+90°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                        |

|  |         |                        |
|--|---------|------------------------|
| PAGE 1 OF 1  |         | DATE Jun 15th 2006     |
| <small>PROPRIETARY INFORMATION 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> |         | DESIGN RFPCC           |
|  <b>RFWC137E WAVEGUIDE HIGH POWER ISOLATOR</b>  |         | RF-LAMBDA RFPCC        |
| www.rflambda.com   |         | CAD MODEL REVISION 19  |
|  |         | ASSEMBLY REVISION VS51 |
|  |         | ASSEMBLY NAME RFLVR10  |
|  |         | DRAWING NUMBER D05-03  |
| RF-LAMBDA  | SIZE LT | SHEETS 1 OF 1          |



| Mkr | Trace   | X-Axis       | Value       | Notes |
|-----|---------|--------------|-------------|-------|
| 1   | S11     | 6.350000 GHz | -29.7660 dB |       |
| 2   | S21     | 6.350000 GHz | -0.0520 dB  |       |
| 3   | S22     | 6.350000 GHz | -27.8210 dB |       |
| 4   | S12     | 6.350000 GHz | -23.9650 dB |       |
| 5   | coupler | 6.350000 GHz | -35.4020 dB |       |

|  |                           |
|--|---------------------------|
| PAGE 1 OF 1  | DATE<br>Jun 15th 2006     |
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|  | RF-LAMBDA<br>RFPC         |
|  | CAD MODEL REVISION<br>19  |
|  | ASSEMBLY REVISION<br>VS51 |
|  <b>RFWC137E<br/>WAVEGUIDE<br/>HIGH POWER<br/>ISOLATOR</b>  | ASSEMBLY NAME<br>RFLVR10  |
|  | DRAWING NUMBER<br>D05-03  |
| www.rflambda.com   | SIZE<br>LT                |
| RF-LAMBDA  | SHEETS<br>1 OF 1          |