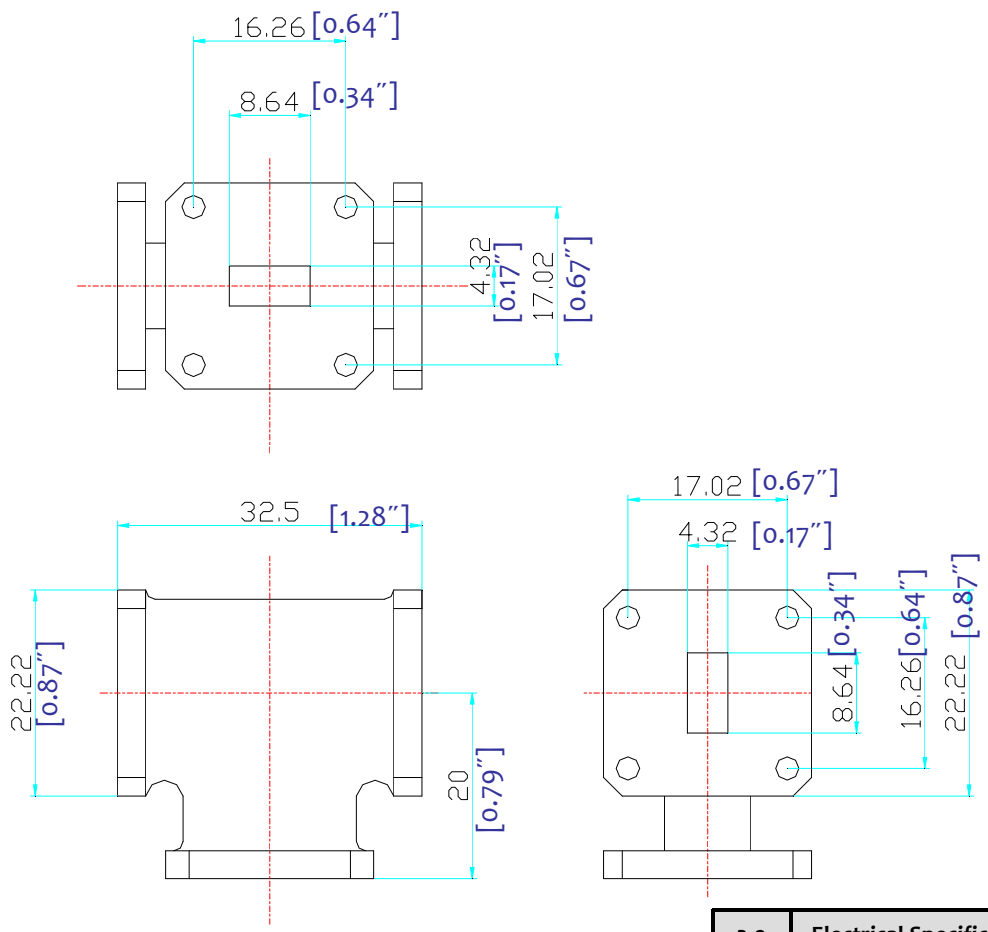



# WAVEGUIDE HIGH POWER CIRCULATOR- -- RFWC34A



| 1.0 Mechanical Specifications |                      |  |
|-------------------------------|----------------------|--|
| 1.1                           | Waveguide type       | Rectangular Waveguide WR34                 |
| 1.2                           | Flange type          | COVER 4 holes flat                         |
| 1.3                           | Flange Holes         | Through                                    |
| 1.4                           | Basis-material       | Aluminum, Brass, Alloyed Cuprum, Stainless |
| 1.5                           | External Body Finish | Body painted with gray/black epoxy enamel  |

| 2.0 Environment specifications |                 |                                   |
|--------------------------------|-----------------|-----------------------------------|
| 2.1                            | Operation Temp. | -40°C~+85°C                       |
| 2.2                            | Storage Temp.   | -50°C~+125°C                      |
| 2.3                            | Altitude        | 30,000 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 | 22-33GHz (Center Frequency) |
| 3.2                           | Bandwidth       | 10% center                  |
| 3.3                           | Average Power   | 20W CW                      |
| 3.4                           | Peak Power      | 1KW (1% 0.5us)              |
| 3.5                           | Insertion Loss  | 0.25dB                      |
| 3.6                           | Isolation       | 20dB                        |
| 3.7                           | Max. VSWR       | 1.20:1                      |

|  |  |                    |                          |
|--|--|--------------------|--------------------------|
| PAGE 1 OF 1  |  | DATE               | Nov 5 <sup>th</sup> 2004 |
| <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 | 19                       |
|  |  | ASSEMBLY REVISION  | V552                     |
|  <b>RFWC34A<br/>WAVEGUIDE<br/>CIRCULATOR</b>  |  | ASSEMBLY NAME      | RFLVR17                  |
|  |  | DRAWING NUMBER     | D05-1                    |
| www.rflambda.com   |  | RF-LAMBDA          | SIZE LT SHEETS 1 OF 1    |