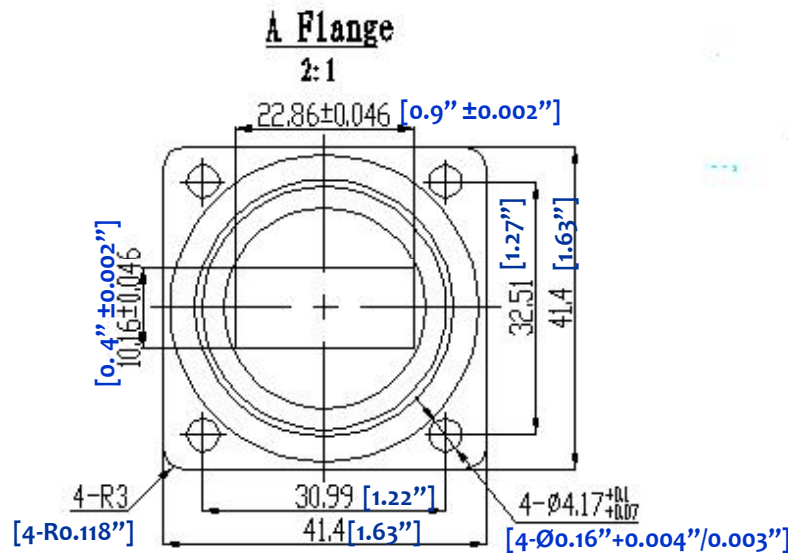


# WAVEGUIDE WR284 HIGH DIRECTIVITY DIRECTIONAL COUPLER -RWGCP284SG



| 3.0 | Electrical Specifications |             |
|-----|---------------------------|-------------|
| 3.1 | Frequency Range           | 2.8~3.5GHz  |
| 3.2 | Coupling                  | 60±0.5dB    |
| 3.3 | Directivity               | 30dB min    |
| 3.4 | VSWR                      | 1.07        |
| 3.5 | Insertion Loss            | 0.15dB max. |
| 3.6 | Average Power             | 6000W       |



| 1.0 | Mechanical Specifications |                                           |
|-----|---------------------------|-------------------------------------------|
| 1.1 | Waveguide type            | Rectangular WR284                         |
| 1.2 | Flange type               | CPRG, CPRF, COVER, CHOKE available        |
| 1.3 | Flange Holes              | Through                                   |
| 1.4 | Basis-material            | Alloyed Cuprum                            |
| 1.5 | Internal Body Finish      | Plated chromate or conversion             |
| 1.6 | 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.              | -60°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                     |

| PAGE                                                                                                                                                                                                                                                                                                                                                                                                                      | OF | DATE                     |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|--------------------------|
|                                                                                                                                                                                                                                                                                                                                                                                                                           |    | Jul 9 <sup>th</sup> 2008 |
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|                                                                                                                                                                                                                                                                                                                                                                                                                           |    | RFPC                     |
|                                                                                                                                                                                                                                                                                                                                                                                                                           |    | RF-LAMBDA                |
|                                                                                                                                                                                                                                                                                                                                                                                                                           |    | RFPC                     |
|  <b>RWGCP284SG<br/>WAVEGUIDE<br/>COUPLER</b>                                                                                                                                                                                                                                                                                         |    | CAD MODEL REVISION       |
|                                                                                                                                                                                                                                                                                                                                                                                                                           |    | 1-4                      |
|                                                                                                                                                                                                                                                                                                                                                                                                                           |    | ASSEMBLY REVISION        |
|                                                                                                                                                                                                                                                                                                                                                                                                                           |    | VS20-3                   |
| <b>www.rflambda.com</b><br><b>RF-LAMBDA</b>                                                                                                                                                                                                                                                                                                                                                                               |    | ASSEMBLY NAME            |
|                                                                                                                                                                                                                                                                                                                                                                                                                           |    | RFLVR04                  |
| SIZE<br>LT                                                                                                                                                                                                                                                                                                                                                                                                                |    | DRAWING NUMBER           |
|                                                                                                                                                                                                                                                                                                                                                                                                                           |    | D02-5                    |
| SHEETS                                                                                                                                                                                                                                                                                                                                                                                                                    |    | 1 OF 1                   |