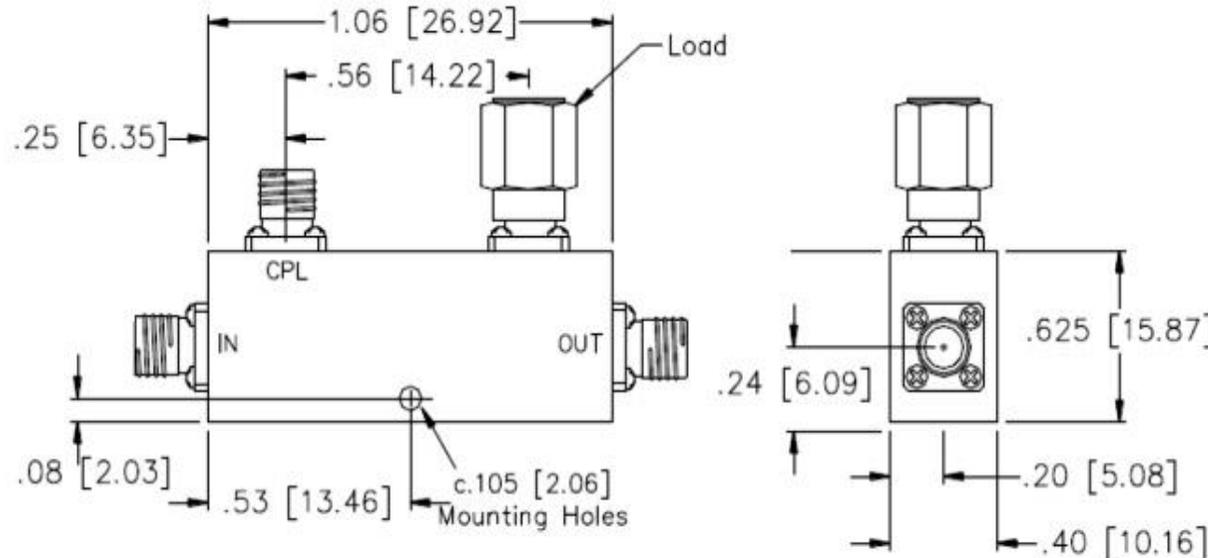


**DC-6G50G-20-2** is a  $20\pm 1\text{dB}$  coupling directional coupler, designed to operate over the 6.0 to 50.0 GHz frequency range, with compact size. This model is designed to handle 20W mx input power, and also performs with low insertion loss of 1.6dB max and with coupling flatness of  $\pm 1.0\text{dB}$  max, and low VSWR of 2.0 max.

### Mechanical Outline(Inch/mm):



### Specifications:

|                    |                |
|--------------------|----------------|
| Coupling:          | 20±1dB         |
| Frequency:         | 6.0 to 50.0GHz |
| Insertion Loss:    | 1.6dB max      |
| Coupling flatness: | ±1.0dB max     |
| Directivity:       | 10dB min       |
| Power Handling:    | 20W max        |
| VSWR:              | 2.0:1 max      |
| Connectors:        | 2.4 Female     |

### Environmental Ratings:

|                    |                                   |
|--------------------|-----------------------------------|
| Temperature:       | -25°C to +71 °C Operating         |
|                    | -65 °C to +100 °C Non-Operating   |
| Vibration:         | MIL-STD-202F, Method 204D Cond. B |
| Altitude:          | MIL-STD-202F, Method 105C Cond. B |
| Temperature Cycle: | MIL-STD-202F, Method 107D Cond. A |

| Directional Coupler<br>DC-6G50G-20-2 |                   |                      |   |
|--------------------------------------|-------------------|----------------------|---|
| DRAWN:                               | DWG NO.:          | REV CODE:<br>Rev.1.0 | <br><a href="http://www.connphy.com">www.connphy.com</a><br><a href="mailto:sales@connphy.com">sales@connphy.com</a> |
| CHECKRD:                             | DATE:<br>18/04/15 | SHEET :<br>1 OF 1    |   |
| ISSUED:                              | SIZE:<br>A        | SCALE :<br>N / A     |   |
|                                      |                   |                      | Notes: SPEC ARE SUBJECT TO CHANGE WITHOUT NOTICE.   |