



## Part Number: D3C8012Y

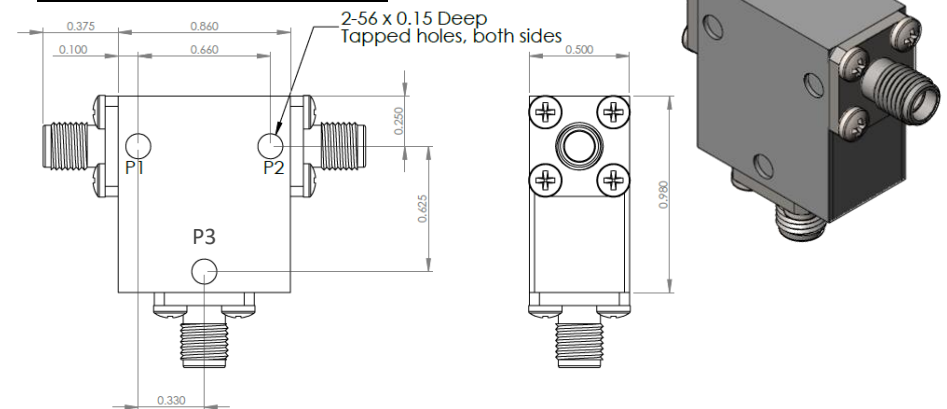
### Electrical Specifications

|                        |                  |
|------------------------|------------------|
| Frequency Range (GHz): | 8.0 – 12.0       |
| Isolation (dB):        | 22 MIN           |
| Insertion Loss (dB):   | 0.4 MAX          |
| Return Loss (dB):      | 20 MIN           |
| Forward Power (W):     | 25 AVG<br>500 PK |

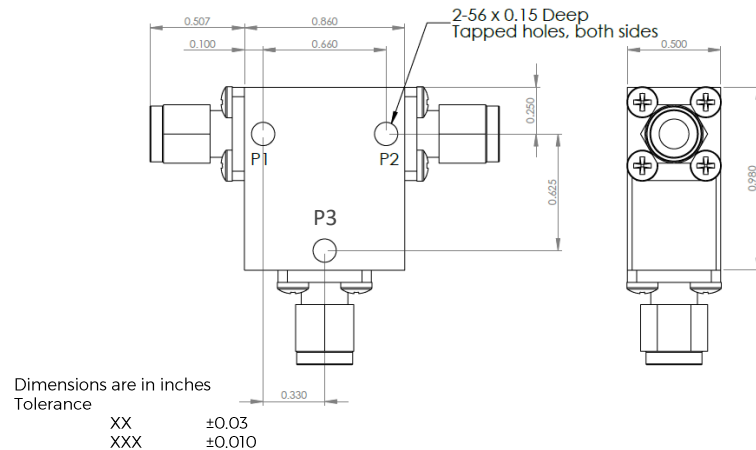
### Mechanical/Environmental Specifications

|                   |                            |
|-------------------|----------------------------|
| Connector Type:   | SMA                        |
| Connector Body:   | Passivated stainless steel |
| Connector Pin:    | Gold plated copper         |
| Load Body:        | Brass                      |
| Magnetic Shunt:   | Nickel plated CRS          |
| Operational Temp: | < 77K                      |
| Weight (oz)       | 1.0 MAX                    |

### D3C8012Y Dimensions



### D3C8012Y-3 Dimensions



| Type of Device                                                              | PN Suffix | Connector Configuration<br>Input / Output | PN Example |
|-----------------------------------------------------------------------------|-----------|-------------------------------------------|------------|
| Single Junction Circulator<br>3-Port Device<br><br>Port 1 / Port 2 / Port 3 | No Dash   | Female / Female / Female                  | D3C8012Y   |
|                                                                             | -1        | Male / Female / Female                    | D3C8012Y-1 |
|                                                                             | -2        | Female / Male / Female                    | D3C8012Y-2 |
|                                                                             | -3        | Male / Male / Male                        | D3C8012Y-3 |
|                                                                             | -4        | Female / Female / Male                    | D3C8012Y-4 |
|                                                                             | -5        | Male / Female / Male                      | D3C8012Y-5 |
|                                                                             | -6        | Male / Male / Female                      | D3C8012Y-6 |
|                                                                             | -7        | Female / Male / Male                      | D3C8012Y-7 |



## MEASURED DATA

Part Number: D3C8012Y, P1→P2, P3 Terminated with 50Ω, Measured at 77K

