

### 3.4-4.2GHz WICT-EW38 Elliptical Flexible Waveguide (PN#W21CC0067)

#### 产品构造 Waveguide Component Construction

|                          |                                                  |        |
|--------------------------|--------------------------------------------------|--------|
| 波导结构 Design of waveguide | 护套 Anti-corrosion jacket                         |        |
|                          | 椭圆截面波纹管 Elliptical cross section corrugated tube |        |
| 外形尺寸 Boundary dimension  | 长轴径 Major axis semi diameter                     | 81.7mm |
|                          | 短轴径 Minor axis semi diameter                     | 52mm   |
| 重量 Weight (Approx. )     | 2.2kg/m                                          |        |
| 法兰规格 Flange Size:        | BJ40/WR229                                       |        |

#### 电气规格 Electrical Specification

|                                |                 |
|--------------------------------|-----------------|
| 工作频率 Operating Frequency Band: | 3.4-4.2 GHz     |
| 驻波比 VSWR(Return Loss):         | ≤1.15 (23.12dB) |
| 截止频率 Cut-off Frequency:        | 2.4 GHz         |

#### 材料 Construction Material

|                                    |        |
|------------------------------------|--------|
| 波导管材质 Waveguide Core Raw Material: | Copper |
| 外护套材质 Jacket Material:             | PE     |
| 护套颜色 Jacket Color:                 | Black  |

#### 机械规格 Mechanical Specification

|                                                             |                   |
|-------------------------------------------------------------|-------------------|
| 最大扭转角度 Max. Torsion Angle:                                  | 1.5°/m            |
| 最小静态弯曲半径 Minimum Bending Radius E Plane, without rebending: | 300 mm   11.81in  |
| 最小静态弯曲半径 Minimum Bending Radius H Plane, without rebending: | 800mm   31.49in   |
| 最小动态弯曲半径 Minimum Bending Radius E Plane, with rebending:    | 400 mm   15.74in  |
| 最小动态弯曲半径 Minimum Bending Radius H Plane, with rebending:    | 1000 mm   39.37in |
| 充气压力 Inflation Pressure (kPa) :                             | 10~50kPa          |

## 环境规格 Environmental Specification

|                                       |              |
|---------------------------------------|--------------|
| 操作温度范围 Operating Temperature Range    | -50℃ to +85℃ |
| 存放温度范围 Storage Temperature Range      | -70℃ to +85℃ |
| 安装温度范围 Installation Temperature Range | -40℃ to +60℃ |

## 标称衰减值 Nominal Attenuation

| 频率 Frequency<br>GHz | 衰减 Attenuation<br>dB/100m | 功率 Average Power<br>(kW) | 群速 Group Velocity<br>%c | 群延迟 Group Delay<br>ns/100m |
|---------------------|---------------------------|--------------------------|-------------------------|----------------------------|
| f=3.4GHz            | 2.8                       | 14.16                    | 70.8                    | 470.9                      |
| f=3.5GHz            | 2.65                      | 14.65                    | 72.8                    | 458.3                      |
| f=3.6GHz            | 2.6d                      | 15.11                    | 74.5                    | 447.5                      |
| f=3.7GHz            | 2.55                      | 15.53                    | 76.1                    | 438.3                      |
| f=3.8GHz            | 2.5                       | 15.92                    | 77.5                    | 430.2                      |
| f=3.9GHz            | 2.45                      | 16.27                    | 78.8                    | 423.2                      |
| f=4.0GHz            | 2.4                       | 16.60                    | 80.0                    | 417.0                      |
| f=4.1GHz            | 2.35                      | 16.91                    | 81.1                    | 411.4                      |
| f=4.2GHz            | 2.3                       | 17.19                    | 82.1                    | 406.5                      |

## 配件 Accessories

|                                            |               |
|--------------------------------------------|---------------|
| 椭圆波导过渡器 Connector for Elliptical Waveguide | 标配 (Standard) |
| 密封窗 Pressure Window                        | 可选 (Optional) |
| 防泄漏片 Contact Shim                          | 可选 (Optional) |
| 穿墙板 Wall/Roof Feed-Through                 | 可选 (Optional) |
| 吊网 Hoisting Grip                           | 可选 (Optional) |
| 线夹 Cable hanger                            | 可选 (Optional) |
| 接地线 Grounding Kit                          | 可选 (Optional) |