

### 17.3-19.7 GHz WICT-EW185 Elliptical Flexible Waveguide (PN#W21CC0075)

#### 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                     | 21mm   |
|                          | 短轴径 Minor axis semi diameter                     | 13.4mm |
| 重量 Weight (Approx. )     | 0.2kg/m                                          |        |
| 法兰规格 Flange Size:        | BJ180/WR51 , BJ220/WR42                          |        |

#### 电气规格 Electrical Specification

|                                |                 |
|--------------------------------|-----------------|
| 工作频率 Operating Frequency Band: | 17.3-19.7 GHz   |
| 驻波比 VSWR(Return Loss):         | ≤1.15 (23.12dB) |
| 截止频率 Cut-off Frequency:        | 11.06 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:                                  | 8°/m             |
| 最小静态弯曲半径 Minimum Bending Radius E Plane, without rebending: | 130 mm   5.11in  |
| 最小静态弯曲半径 Minimum Bending Radius H Plane, without rebending: | 280mm   11.03in  |
| 最小动态弯曲半径 Minimum Bending Radius E Plane, with rebending:    | 130 mm   5.11in  |
| 最小动态弯曲半径 Minimum Bending Radius H Plane, with rebending:    | 300 mm   11.81in |
| 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=17.3GHz           | 20.40 dB                  | 0.49                     | 76.9                    | 433.8                      |
| f=17.4GHz           | 20.26 dB                  | 0.49                     | 77.2                    | 432.1                      |
| f=17.5GHz           | 20.20 dB                  | 0.50                     | 77.5                    | 430.4                      |
| f=17.6GHz           | 20.16 dB                  | 0.50                     | 77.8                    | 428.8                      |
| f=17.7GHz           | 20.10 dB                  | 0.50                     | 78.1                    | 427.2                      |
| f=17.8GHz           | 20.04 dB                  | 0.50                     | 78.4                    | 425.7                      |
| f=17.9GHz           | 19.98 dB                  | 0.50                     | 78.6                    | 424.2                      |
| f=18.0GHz           | 19.92 dB                  | 0.51                     | 78.9                    | 422.8                      |
| f=18.1GHz           | 19.86 dB                  | 0.51                     | 79.2                    | 421.4                      |
| f=18.2GHz           | 19.80 dB                  | 0.51                     | 79.4                    | 420.0                      |
| f=18.3GHz           | 19.74 dB                  | 0.51                     | 79.7                    | 418.7                      |
| f=18.4GHz           | 19.68 dB                  | 0.51                     | 79.9                    | 417.4                      |
| f=18.5GHz           | 19.62 dB                  | 0.51                     | 80.2                    | 416.1                      |
| f=18.6GHz           | 19.56 dB                  | 0.51                     | 80.4                    | 414.9                      |
| f=18.7GHz           | 19.50 dB                  | 0.52                     | 80.6                    | 413.7                      |
| f=18.8GHz           | 19.44 dB                  | 0.52                     | 80.9                    | 412.5                      |
| f=18.9GHz           | 19.38 dB                  | 0.52                     | 81.1                    | 411.4                      |
| f=19.0GHz           | 19.32 dB                  | 0.52                     | 81.3                    | 410.2                      |
| f=19.1GHz           | 19.26 dB                  | 0.52                     | 81.5                    | 409.1                      |
| f=19.2GHz           | 19.20 dB                  | 0.52                     | 81.7                    | 408.1                      |
| f=19.3GHz           | 19.14 dB                  | 0.52                     | 82.0                    | 407.0                      |
| f=19.4GHz           | 19.08 dB                  | 0.52                     | 82.2                    | 406.0                      |
| f=19.5GHz           | 19.02 dB                  | 0.53                     | 82.4                    | 405.0                      |
| f=19.6GHz           | 18.96 dB                  | 0.53                     | 82.6                    | 404.0                      |
| f=19.7GHz           | 18.90 dB                  | 0.53                     | 82.8                    | 403.1                      |

## 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) |

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