

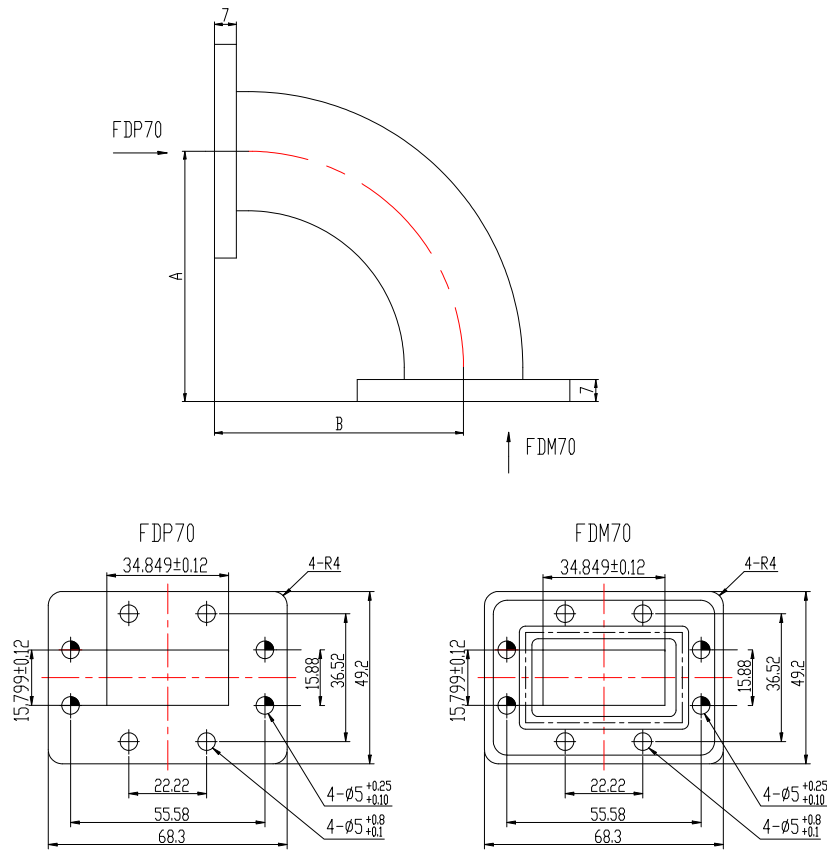
## Waveguide Switch

Part No: ST137WESMDC

|      |                                              |                           |
|------|----------------------------------------------|---------------------------|
| 1.0  | Mechanical Specifications                    |                           |
| 1.1  | Waveguide type                               | WR137                     |
| 1.2  | Flange type                                  | FDP70 (CPR137F)           |
| 1.3  | Material                                     | Aluminum                  |
| 1.4  | Finish                                       | Anticorrosion black paint |
| 1.5  | Temperature range                            | 0°C ~ +50°C               |
| 1.6  | Drive mechanism                              | Motorized operated        |
| 1.7  | Mechanical life cycles without hot switching | 250,000                   |
| 1.8  | Environment                                  | Indoor                    |
| 1.9  | Weight                                       | 0.8Kg                     |
| 1.10 | Switch Type                                  | DPDT                      |
|      |                                              |                           |
| 2.0  | Electrical Specifications                    |                           |
| 2.1  | Frequency range                              | 5.38-8.17GHz              |
| 2.2  | VSWR (Max)                                   | 1.10                      |
| 2.3  | Insertion loss (Max)                         | 0.10 dB                   |
| 2.4  | Isolation (Min)                              | 70 dB                     |
| 2.5  | Power handling                               | 5 kW (Average)            |
| 2.6  | Power supply                                 | 28 V (DC)                 |
| 2.7  | Max. Switch time:                            | 80ms                      |
|      |                                              |                           |
| 3.0  | Outline Drawing (for reference only)         |                           |

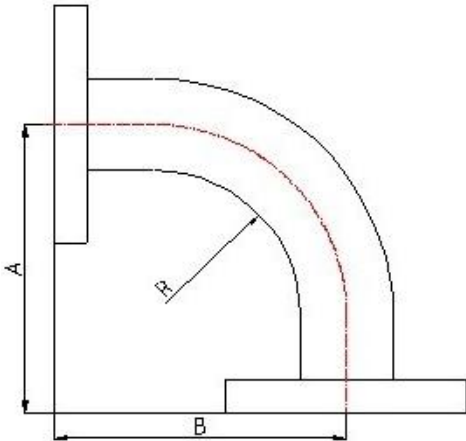
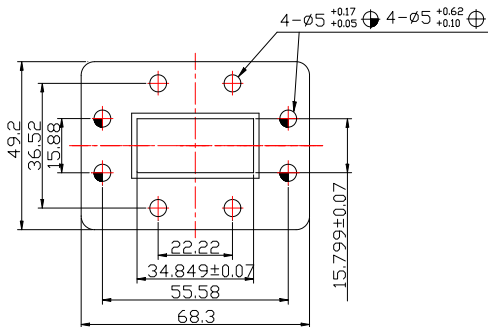
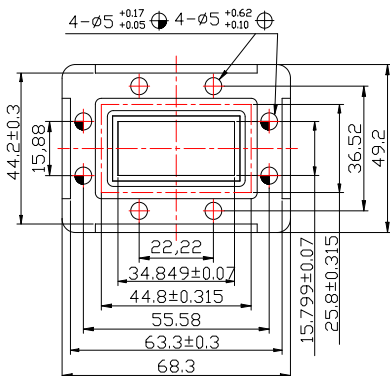
## Waveguide H-Bend

Part No: ST137WHB80PMC

|                                                                                                 |                           |                                   |
|-------------------------------------------------------------------------------------------------|---------------------------|-----------------------------------|
| 1.0                                                                                             | Mechanical Specifications |                                   |
| 1.1                                                                                             | Waveguide type            | WR137                             |
| 1.2                                                                                             | Flange type               | FDP70(CPR 137 F)/FDM70(CPR 137 G) |
| 1.3                                                                                             | Material                  | Copper                            |
| 1.4                                                                                             | Inside finish             | Sliver Plating                    |
| 1.5                                                                                             | Outside finish            | Anticorrosion black paint         |
| 1.6                                                                                             | Dimensions                | A=80mm, B=80mm                    |
| 1.7                                                                                             | Accessories               | O-ring mated with flange FDM70    |
|                                                                                                 |                           |                                   |
| 2.0                                                                                             | Electrical Specifications |                                   |
| 2.1                                                                                             | Frequency range           | 5.38-8.17 GHz                     |
| 2.2                                                                                             | VSWR (Max)                | 1.10                              |
| 2.3                                                                                             | Insertion loss            | 0.2 dB                            |
|                                                                                                 |                           |                                   |
| 3.0                                                                                             | Outline Drawings          |                                   |
| <div></div> |                           |                                   |

## Waveguide E-Bend

Part No: ST137WEB60PMC

|                                                                                                                                                                                                                                                                                                                                           |                           |                                   |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|-----------------------------------|
| 1.0                                                                                                                                                                                                                                                                                                                                       | Mechanical Specifications |                                   |
| 1.1                                                                                                                                                                                                                                                                                                                                       | Waveguide type            | WR137                             |
| 1.2                                                                                                                                                                                                                                                                                                                                       | Flange type               | FDP70(CPR 137 F)/FDM70(CPR 137 G) |
| 1.3                                                                                                                                                                                                                                                                                                                                       | Material                  | Copper                            |
| 1.4                                                                                                                                                                                                                                                                                                                                       | Inside finish             | Silver plating                    |
| 1.5                                                                                                                                                                                                                                                                                                                                       | Outside finish            | Anticorrosion black paint         |
| 1.6                                                                                                                                                                                                                                                                                                                                       | Dimensions(A*B*R)         | 60*60*30mm                        |
| 1.7                                                                                                                                                                                                                                                                                                                                       | Accessories               | gasket and screw kit              |
|                                                                                                                                                                                                                                                                                                                                           |                           |                                   |
| 2.0                                                                                                                                                                                                                                                                                                                                       | Electrical Specifications |                                   |
| 2.1                                                                                                                                                                                                                                                                                                                                       | Frequency range           | 5.38-8.17 GHz                     |
| 2.2                                                                                                                                                                                                                                                                                                                                       | VSWR (Max)                | 1.10                              |
| 2.3                                                                                                                                                                                                                                                                                                                                       | Insertion loss            | 0.2 dB                            |
|                                                                                                                                                                                                                                                                                                                                           |                           |                                   |
| 3.0                                                                                                                                                                                                                                                                                                                                       | Outline Drawings          |                                   |
| <div><div></div><div><div><p>FDP70</p></div><div><p>FDM70</p></div></div></div> |                           |                                   |

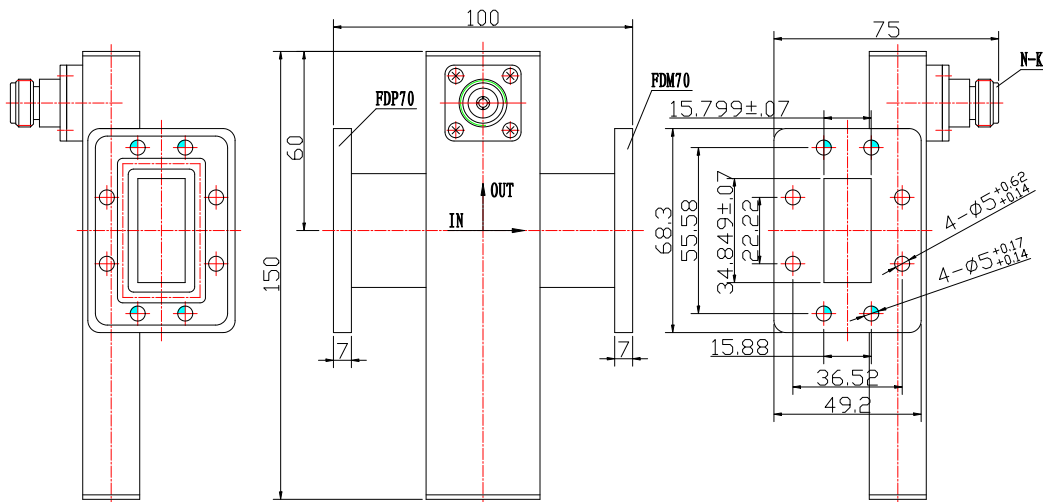
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## Crossguide Directional Coupler

Part No: ST137WCDC30NKPMC

|                                                                                      |                             |                                          |
|--------------------------------------------------------------------------------------|-----------------------------|------------------------------------------|
| 1.0                                                                                  | Mechanical Specifications   |                                          |
| 1.1                                                                                  | Waveguide type              | WR137                                    |
| 1.2                                                                                  | Flange type                 | FDP70(CPR 137 F)/FDM70(CPR 137 G)        |
| 1.3                                                                                  | Coupled port connector      | N type Female                            |
| 1.4                                                                                  | Material                    | Copper/Brass                             |
| 1.5                                                                                  | Inside finish               | Silver plating                           |
| 1.6                                                                                  | Outside finish              | Anticorrosion black paint                |
|                                                                                      |                             |                                          |
| 2.0                                                                                  | Electrical Specifications   |                                          |
| 2.1                                                                                  | Frequency range             | 5.8-7.2 GHz                              |
| 2.2                                                                                  | VSWR (Max)                  | 1.10 (Master line), 1.25 (Coupling line) |
| 2.3                                                                                  | Coupling                    | 30 ± 0.5 dB                              |
| 2.4                                                                                  | Frequency Sensitivity (Max) | ± 1 dB                                   |
| 2.5                                                                                  | Directivity (Min)           | 18 dB                                    |
|                                                                                      |                             |                                          |
| 3.0                                                                                  | Outline Drawing             |                                          |
|  |                             |                                          |

## Waveguide Twistable

### Part No: ST137WTA150PMC

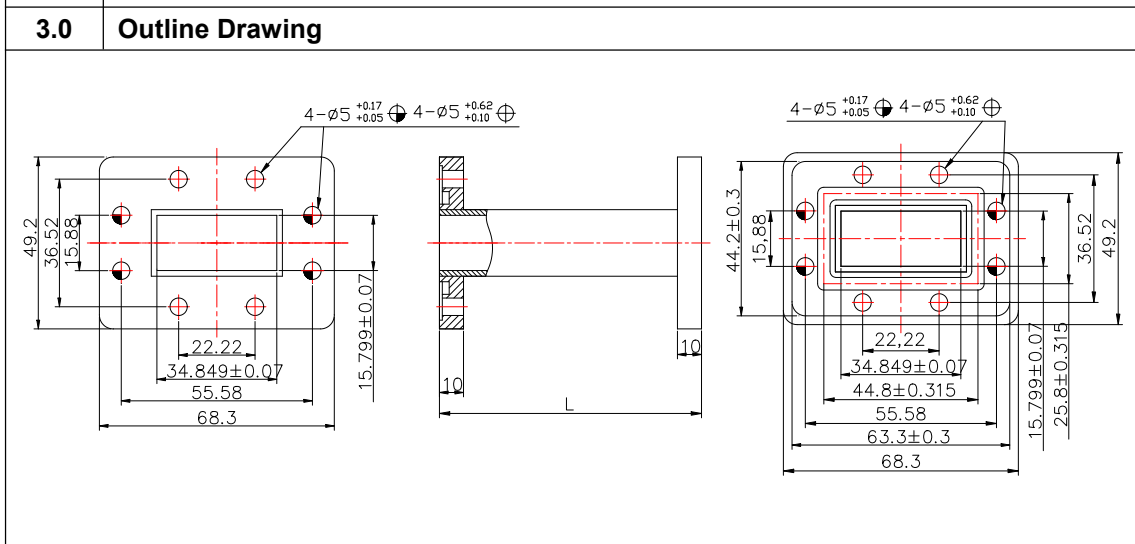
|                            |                           |                                                                          |
|----------------------------|---------------------------|--------------------------------------------------------------------------|
| 1.0                        | Mechanical Specifications |                                                                          |
| 1.1                        | Waveguide type            | Rectangular Waveguide WR-137                                             |
| 1.2                        | Flange type               | FDP70(CPR 137 F)/FDM70(CPR 137 G)                                        |
| 1.3                        | Basis-material            | Alloyed Copper                                                           |
| 1.4                        | Finish                    | Inside: Silver Plating,<br>Outside: Corrosion protected with black paint |
| 1.5                        | Dimension (L)             | L=150mm                                                                  |
| 1.6                        | Temperature range         | -40°C ~ +70°C                                                            |
| 1.7                        | Accessories               | O-ring mated with flange FDM70                                           |
|                            |                           |                                                                          |
| 2.0                        | Electrical Specifications |                                                                          |
| 2.1                        | Frequency Range           | 5.38 – 8.17 GHz                                                          |
| 2.2                        | Max. VSWR                 | 1.1:1                                                                    |
| 2.3                        | Max. Insertion loss       | 0.2dB                                                                    |
|                            |                           |                                                                          |
| 3.0                        | Outline Drawing           |                                                                          |
| <div><p>HD-70WTA</p></div> |                           |                                                                          |

## Flexible-Twistable Waveguide

Part No: ST137WEL600PMC

|            |                                  |                                   |
|------------|----------------------------------|-----------------------------------|
| <b>1.0</b> | <b>Mechanical Specifications</b> |                                   |
| 1.1        | Waveguide type                   | Rectangular Waveguide WR-137      |
| 1.2        | Flange type                      | FDP70(CPR 137 F)/FDM70(CPR 137 G) |
| 1.3        | Basis-material                   | Copper                            |
| 1.3        | Material                         | Copper/Brass                      |
| 1.4        | Jacket material                  | Black polysulfide rubber          |
| 1.5        | Maximum Twist                    | 262 deg/m                         |
| 1.6        | Minimum Bend Radius (E Plane)    | 100 mm                            |
| 1.7        | Minimum Bend Radius (H Plane)    | 200 mm                            |
| 1.8        | Length                           | L=600 mm                          |
| 1.9        | Storage temperature              | -55°C ~+85°C                      |
| 1.10       | Operating temperature            | -40°C ~+75°C                      |
| 1.11       | Accessories                      | gasket and screw kit              |

|            |                                  |             |
|------------|----------------------------------|-------------|
| <b>2.0</b> | <b>Electrical Specifications</b> |             |
| 2.1        | Frequency Range                  | 5.85-8.2GHz |
| 2.2        | Max. VSWR                        | 1.10:1      |
| 2.3        | Max. Insertion loss              | 0.25dB/m    |
| 2.4        | Handling Power                   | 2KW (CW)    |



## Flexible-Twistable Waveguide

Part No: ST137WEL1000PMC

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                               |                                   |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|-----------------------------------|
| 1.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Mechanical Specifications     |                                   |
| 1.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Waveguide type                | Rectangular Waveguide WR-137      |
| 1.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Flange type                   | FDP70(CPR 137 F)/FDM70(CPR 137 G) |
| 1.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Basis-material                | Copper                            |
| 1.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Material                      | Copper/Brass                      |
| 1.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Jacket material               | Black polysulfide rubber          |
| 1.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Maximum Twist                 | 262 deg/m                         |
| 1.6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Minimum Bend Radius (E Plane) | 100 mm                            |
| 1.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Minimum Bend Radius (H Plane) | 200 mm                            |
| 1.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Length                        | L=1000 mm                         |
| 1.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Storage temperature           | -55°C ~+85°C                      |
| 1.10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Operating temperature         | -40°C ~+75°C                      |
| 1.11                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Accessories                   | gasket and screw kit              |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                               |                                   |
| 2.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Electrical Specifications     |                                   |
| 2.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Frequency Range               | 5.85-8.2GHz                       |
| 2.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Max. VSWR                     | 1.10:1                            |
| 2.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Max. Insertion loss           | 0.25dB/m                          |
| 2.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Handling Power                | 2KW (CW)                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                               |                                   |
| 3.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Outline Drawing               |                                   |
| <p>The technical drawing consists of three views of the waveguide flange: a front view, a side view, and a rear view. The front and rear views are rectangular with rounded corners and feature four mounting holes. The side view shows the profile of the waveguide with a central rectangular opening. Dimensions are provided in millimeters with tolerances.</p> <p><b>Front View Dimensions:</b></p> <ul style="list-style-type: none"><li>Overall width: 68.3</li><li>Overall height: 49.2</li><li>Inner width: 55.58</li><li>Inner height: 36.52</li><li>Distance between mounting holes: 34.849±0.07</li><li>Distance from center to mounting hole: 22.22</li><li>Mounting hole diameter: 4-Ø5 (+0.17 / +0.05)</li></ul> <p><b>Side View Dimensions:</b></p> <ul style="list-style-type: none"><li>Waveguide length: L</li><li>Flange thickness: 10</li></ul> <p><b>Rear View Dimensions:</b></p> <ul style="list-style-type: none"><li>Overall width: 68.3</li><li>Overall height: 49.2</li><li>Inner width: 55.58</li><li>Inner height: 36.52</li><li>Distance between mounting holes: 34.849±0.07</li><li>Distance from center to mounting hole: 22.22</li><li>Mounting hole diameter: 4-Ø5 (+0.17 / +0.05)</li><li>Distance from outer edge to mounting hole: 44.8±0.315</li><li>Distance from outer edge to inner edge: 63.3±0.3</li><li>Distance from center to mounting hole: 25.8±0.315</li><li>Distance from center to mounting hole: 15.799±0.07</li></ul> |                               |                                   |

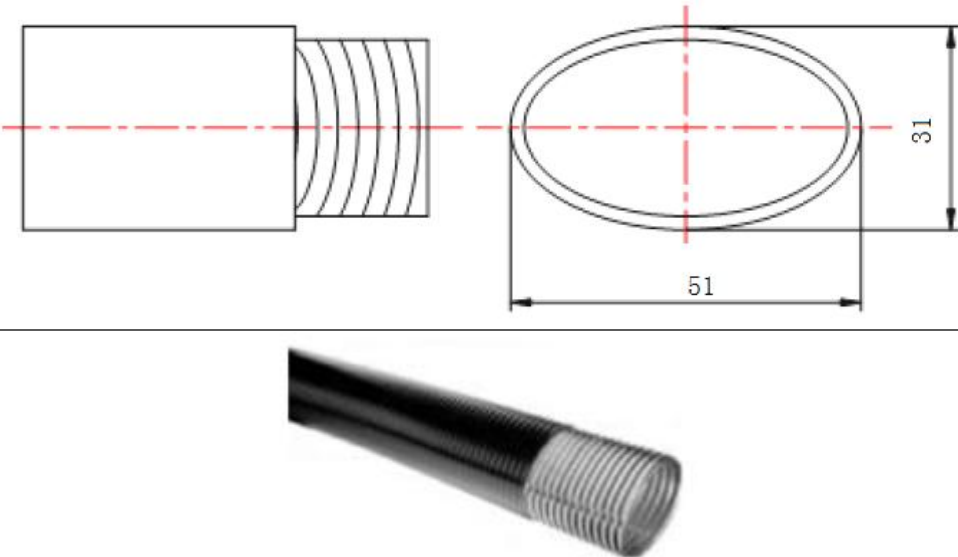
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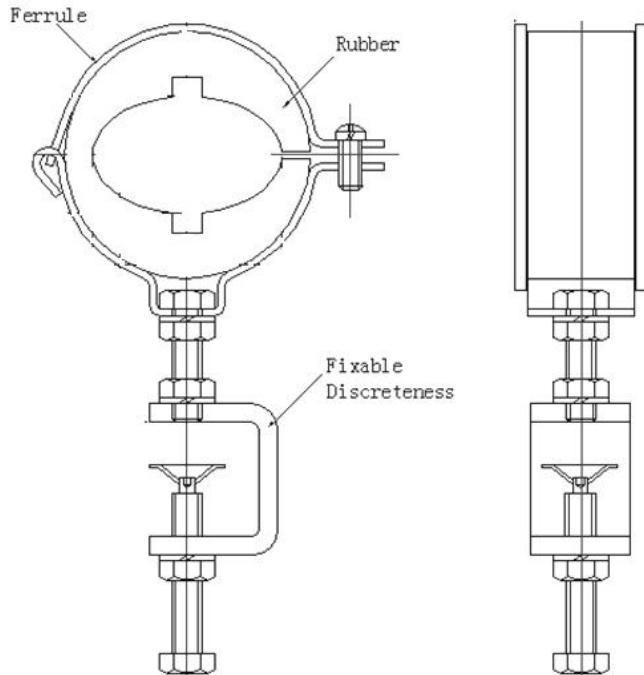
## Elliptical Waveguide

### Part No: ST62EWAL10000

|                                                                                                 |                               |                                |
|-------------------------------------------------------------------------------------------------|-------------------------------|--------------------------------|
| 1.0                                                                                             | Mechanical Specifications     |                                |
| 1.1                                                                                             | Waveguide type                | Elliptical Waveguide for WR137 |
| 1.2                                                                                             | Basis material                | Copper                         |
| 1.3                                                                                             | Minimum bend radius (E Plane) | 220 mm                         |
| 1.4                                                                                             | Minimum bend radius (H Plane) | 550 mm                         |
| 1.5                                                                                             | Weight                        | 0.85 kg/m                      |
| 1.6                                                                                             | Length                        | L=10m                          |
| 1.7                                                                                             | Temperature range             | -40°C ~ +75°C                  |
|                                                                                                 |                               |                                |
| 2.0                                                                                             | Electrical Specifications     |                                |
| 2.1                                                                                             | Frequency range               | 5.85-7.125GHz                  |
| 2.2                                                                                             | VSWR (Max)                    | 1.20:1                         |
| 2.3                                                                                             | Attenuation (Max)             | 6dB/100m                       |
|                                                                                                 |                               |                                |
| 3.0                                                                                             | Outline Drawing               |                                |
| <div></div> |                               |                                |

## Butterfly Hanger

Part No: ST62BDKZ

|                                                                                                |                                       |                             |
|------------------------------------------------------------------------------------------------|---------------------------------------|-----------------------------|
| 1.0                                                                                            | Mechanical Specifications             |                             |
| 1.1                                                                                            | Adapter Type                          | Elliptical Waveguide 62EWAL |
|                                                                                                |                                       |                             |
| 2.0                                                                                            | Outline Drawings (For Reference Only) |                             |
| <div></div> |                                       |                             |
| <div></div> |                                       |                             |