

**0.5 to 18GHz 10±0.8dB Directional Coupler**

**DC005180-10S\_A**

**1, Configuration**

18GHz, SMA-Female Directional Coupler ;  
Ultra Broadband, Multi-Octave ;  
Main Line VSWR 1.4, Freq. Flatness 1.6dB;  
Operating Temperature: -55 to +105°C

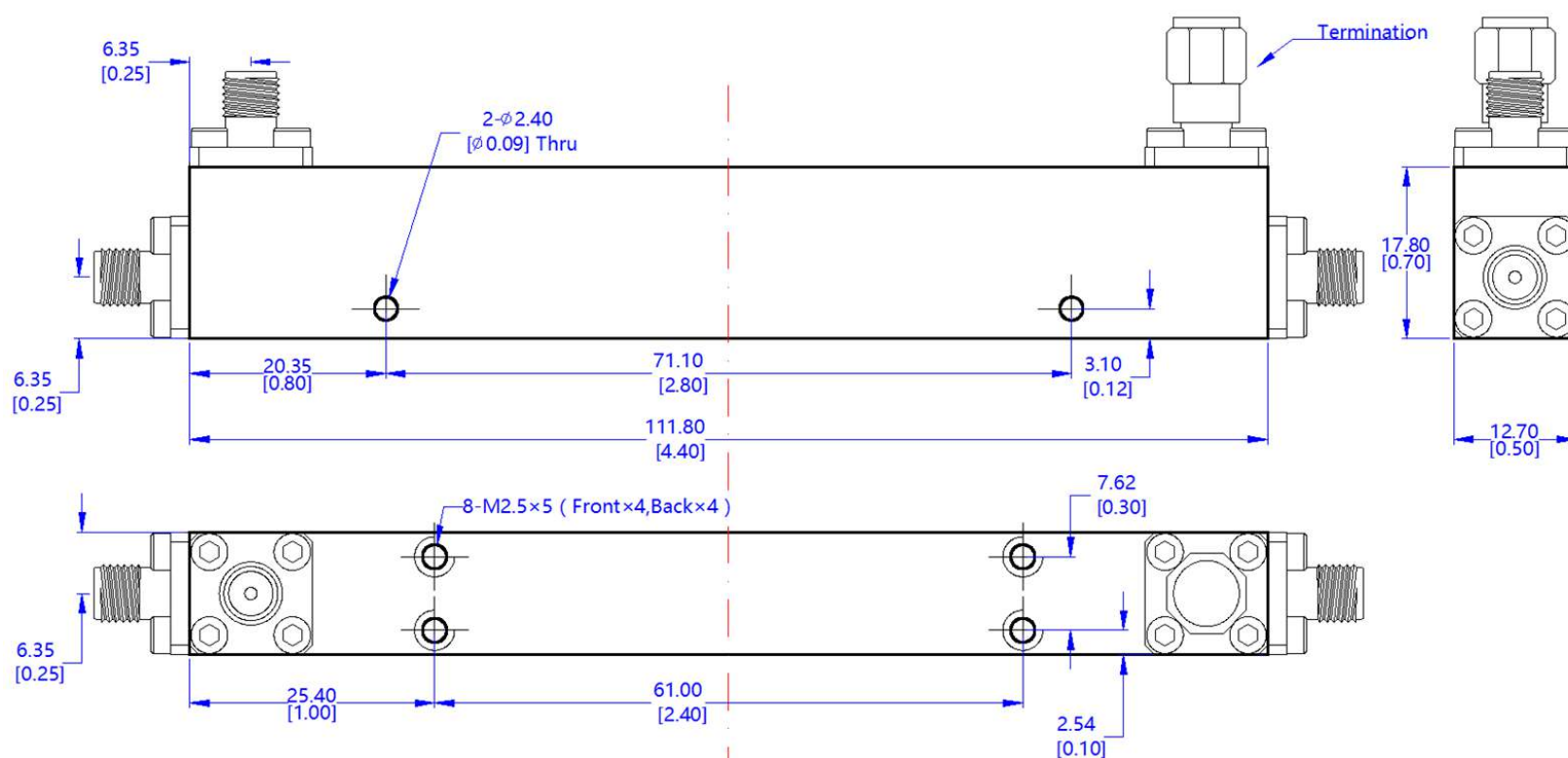


**2, Specifications** ( Electronic Specification Note : Values at 25deg , sea level. Test indicators will deteriorate at high and low temperature )

| Parameter      | Unit      | Specification | Parameter  | Unit | Specification   |
|----------------|-----------|---------------|--|------|-----------------|
| Freq. Range    | GHz /     | 0.5 - 18      | Operating Temp.  | °C   | -55 to +105     |
| Impedance      | Ω /       | 50            | ROHS Compliant   | /    | Yes             |
| Main Line VSWR | / Max.    | 1.4           | Input Connectors   | /    | SMA-Female      |
| Coupling VSWR  | / Max.    | 1.4           | Output Connectors  | /    | SMA-Female      |
| Insertion Loss | dB Max.   | 1.8           | Dimension L*W*H  | mm   | 111.8*17.8*12.7 |
| Nom. Coupling  | dB Limits | 10±0.8        | Weight Max.  | g    | 90              |
| Freq. Flatness | dB Max.   | 1.6           | Surface  | /    | Paint Black     |
| Directivity    | dB Min.   | 15            | <ul style="list-style-type: none"> <li>• Cluding theoretical insertion loss due to coupling;</li> <li>• Stainless Steel Input and Output Connectors</li> </ul> |      |                 |
| CW Power       | W Max.    | 20            |  |      |                 |
| Peak Power     | KW Max.   | 3             |  |      |                 |

**Special Request :**

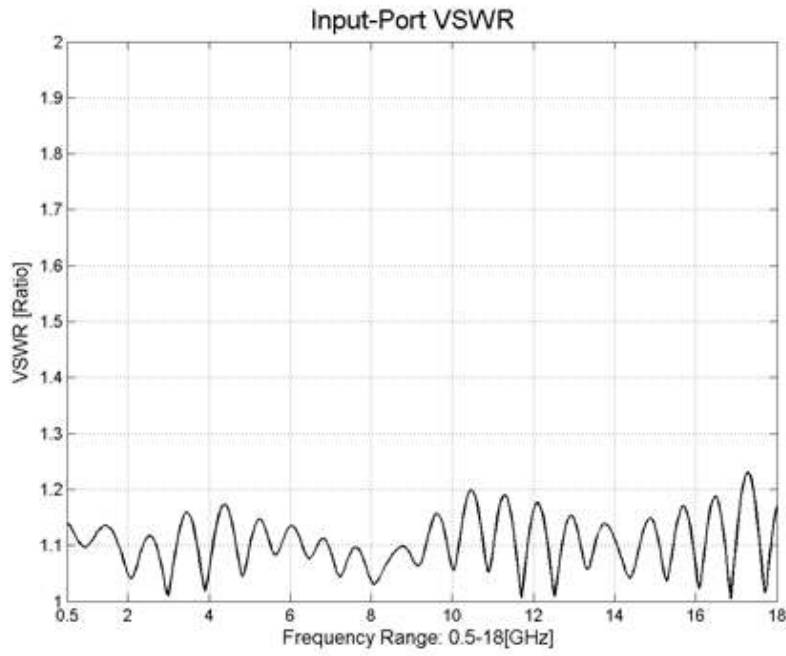
**3, CAD Drawing**



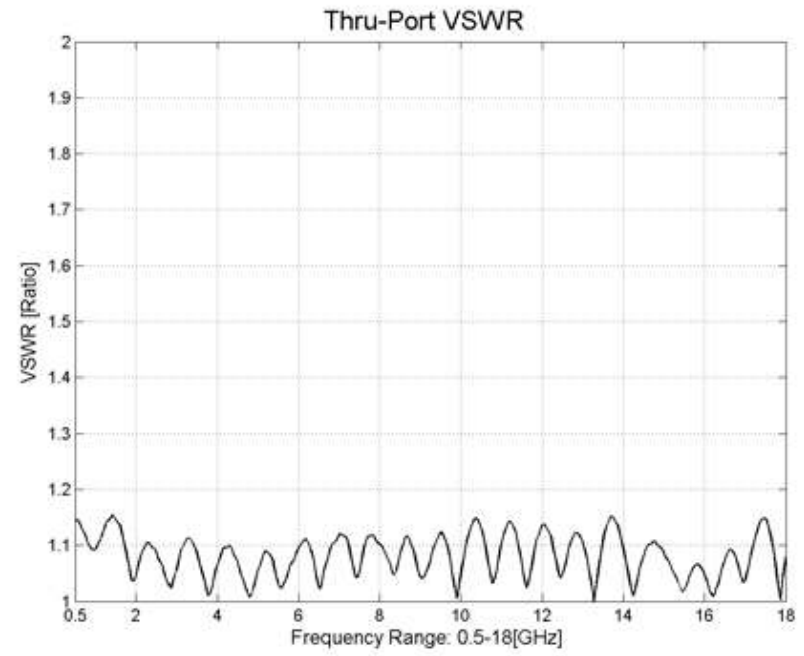
Unit : MM / [Inch] , Unless otherwise specified, Outline drawing ±0.2MM ; Hole±0.1MM

P / N : DC005180-10S\_A S / N : DC160026

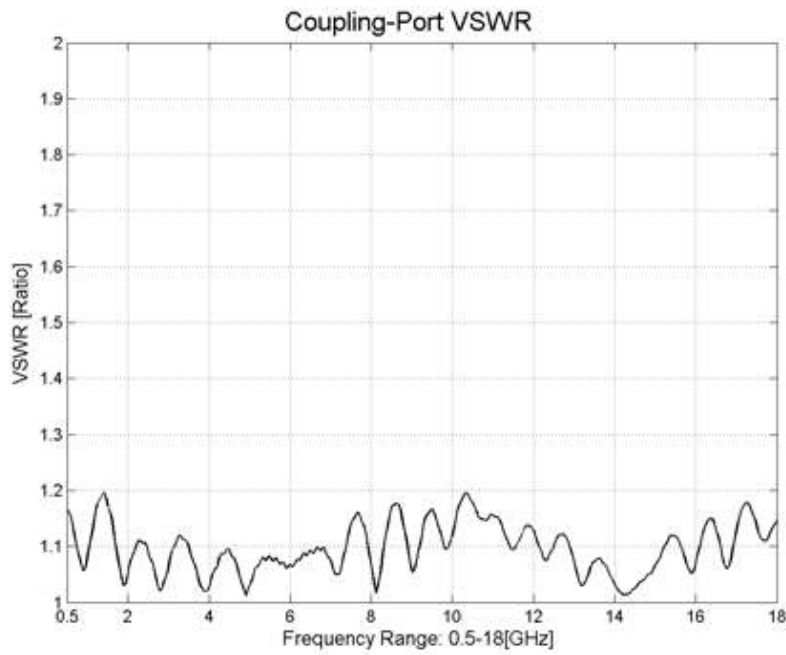
Input Port VSWR



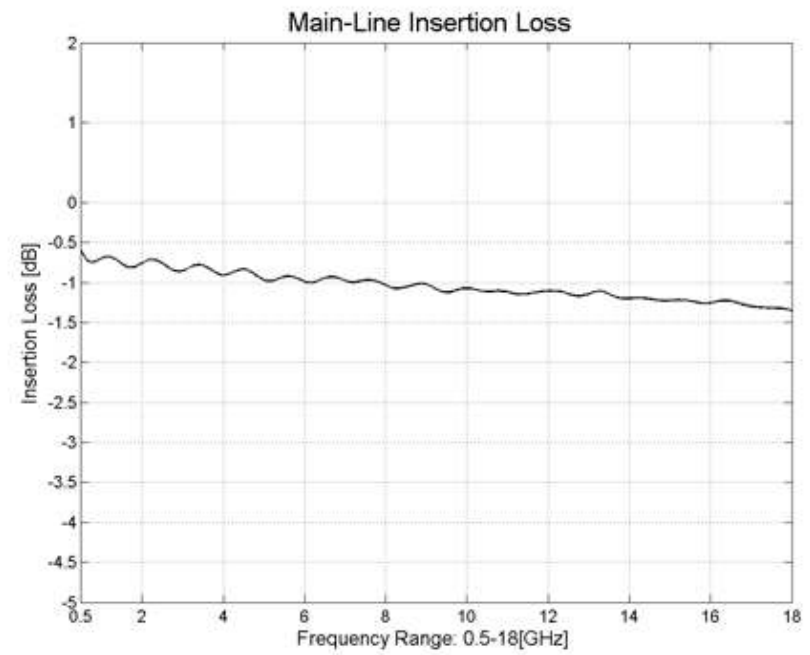
Thru-Port VSWR



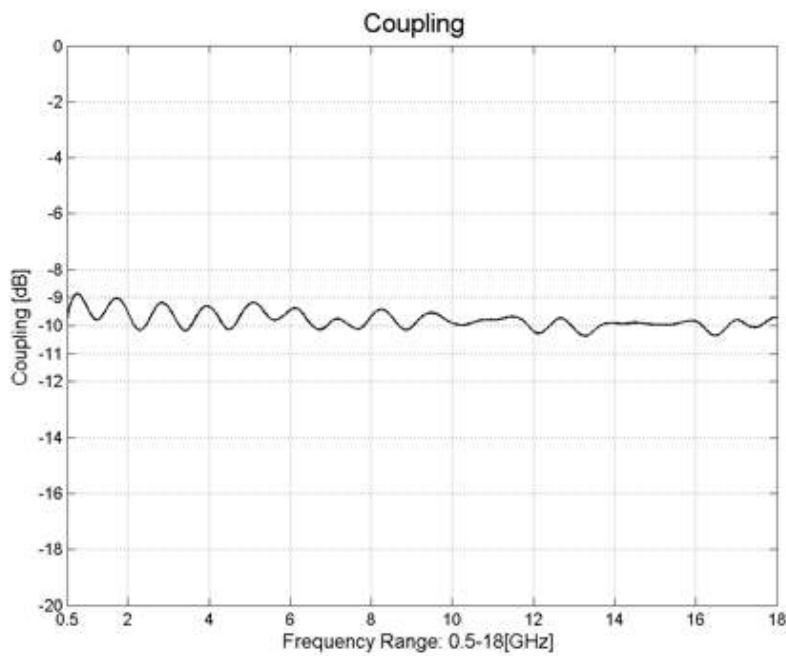
Coupling-Port VSWR



Insertion Loss



Coupling



Directivity

