## RF Product Introduction

### RF Shielding Boxes Overview

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<td>Pneumatic Shielding Box</td>
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<td>EQ-PP 454540</td>
<td>Pneumatic Shielding Box</td>
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<td>EQ-PP H35</td>
<td>Pneumatic Shielding Box</td>
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<td>EQ-PP H45</td>
<td>Pneumatic Shielding Box</td>
<td>6</td>
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<tr>
<td>EQ-PP H55</td>
<td>Pneumatic Shielding Box</td>
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</tr>
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<td>EQ-MP 404030</td>
<td>Manual Shielding Box</td>
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<td>EQ-MP 505040</td>
<td>Manual Shielding Box</td>
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<td>EQ-MP 454540</td>
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<td>EQ-MP 352516</td>
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<td>Manual Shielding Box</td>
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</tbody>
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### Shielding Box Filters

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### RF Component/Accessory

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<td>Power Divider</td>
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<td>Coaxial Switch</td>
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</table>

### RF Shielding Room

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Pneumatic Press (PP) Shielding Box

EQ-PP 404030
Pneumatic Press Shielding Box

EQ-PP 505040
Pneumatic Press Shielding Box

EQ-PP 454540
Pneumatic Press Shielding Box

EQ-PP H35
Pneumatic Press Shielding Box

EQ-PP H45
Pneumatic Press Shielding Box

EQ-PP H55
Pneumatic Press Shielding Box

Manual Press (MP) Shielding Box

EQ-MP 404030
Manual Press Shielding Box

EQ-MP 505040
Manual Press Shielding Box

EQ-MP 454540
Manual Press Shielding Box

EQ-MP 302016
Manual Press Shielding Box

EQ-MP 352516
Manual Press Shielding Box

EQ-MP F485
Manual Press Shielding Box

EQ-MP F385
Manual Press Shielding Box

For more technical information, please contact us by:
Tel: +36-29/550-940 | Email: info@equip-test.com | Web: www.equip-test.com
EQ - PP 404030 Pneumatic Press Shielding Box

- Apply to Bluetooth, WCDMA, WLAN field
- Able to connect to computer by RS 232
- Lift up as clamshell, easy to set the DUT
- Foolproof design
- Match to various filters
- Front-end switchboard, easy to maintain.

**Specification:**

<table>
<thead>
<tr>
<th>Exterior Dimension (W×D×H)</th>
<th>505×535×336 mm</th>
<th>Interior Dimension (W×D×H)</th>
<th>370×370×305 mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Material</td>
<td>Galvanized sheet steel</td>
<td>Isolation</td>
<td>&gt; 80 dB (2.4 GHz and 5.8 GHz, without filter)</td>
</tr>
<tr>
<td>Weight</td>
<td>25 kg</td>
<td>Open mode</td>
<td>Lift up as clamshell</td>
</tr>
<tr>
<td>SMA</td>
<td>SMA ×6</td>
<td>Hose of Box</td>
<td>Φ 6 mm</td>
</tr>
<tr>
<td>Power Input</td>
<td>AC100 – 220V</td>
<td>Hose of Fixture</td>
<td>Φ 4 mm</td>
</tr>
<tr>
<td>Power Consumption</td>
<td>30W</td>
<td>Input Pressure</td>
<td>&gt; 6 kg/cm²</td>
</tr>
</tbody>
</table>

**Dimension:**

For more technical information, please contact us by :
Tel: +36-29/550-940 | Email: info@equip-test.com | Web: www.equip-test.com
EQ - PP 505040 Pneumatic Press Shielding Box

- Apply to Bluetooth, WCDMA, WLAN field
- Able to connect to computer by RS 232
- Lift up as clamshell, easy to set the DUT
- Foolproof design
- Match to various filters
- Front-end switchboard, easy to maintain.

**Specification:**

<table>
<thead>
<tr>
<th>Exterior Dimension (W×D×H)</th>
<th>580×615×395 mm</th>
<th>Interior Dimension (W×D×H)</th>
<th>450×475×370 mm</th>
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</thead>
<tbody>
<tr>
<td>Material</td>
<td>Galvanized sheet steel</td>
<td>Isolation</td>
<td>&gt; 80 dB (2.4GHz and 5.8GHz, without filter)</td>
</tr>
<tr>
<td>Weight</td>
<td>35 kg</td>
<td>Open mode</td>
<td>Lift up as clamshell</td>
</tr>
<tr>
<td>SMA</td>
<td>SMA ×6</td>
<td>Hose of Box</td>
<td>Φ 6 mm</td>
</tr>
<tr>
<td>Power Input</td>
<td>AC 100 – 220 V</td>
<td>Hose of Fixture</td>
<td>Φ 4 mm</td>
</tr>
<tr>
<td>Power Consumption</td>
<td>30 W</td>
<td>Input Pressure</td>
<td>&gt; 6 kg/cm²</td>
</tr>
</tbody>
</table>

**Dimension:**

![Diagram of shielding box dimensions]

Unit: mm

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EQ - PP 454540 Pneumatic Press Shielding Box

- Apply to Bluetooth, WCDMA, WLAN field
- Able to connect to computer by RS 232
- Lift up as clamshell, easy to set the DUT
- Foolproof design
- Match to various filters
- Front-end switchboard, easy to maintain

### Specification:

<table>
<thead>
<tr>
<th>Specification</th>
<th>Exterior Dimension (W×D×H) 560×500×510 mm</th>
<th>Interior Dimension (W×D×H) 420×420×400 mm</th>
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<tr>
<td>Material</td>
<td>Galvanized sheet steel</td>
<td>Isolation</td>
</tr>
<tr>
<td>Weight</td>
<td>35 kg</td>
<td>Open mode</td>
</tr>
<tr>
<td>SMA</td>
<td>SMA ×6</td>
<td>Hose of Box</td>
</tr>
<tr>
<td>Power Input</td>
<td>AC 100 – 220 V</td>
<td>Hose of Fixture</td>
</tr>
<tr>
<td>Power Consumption</td>
<td>30 W</td>
<td>Input Pressure</td>
</tr>
<tr>
<td></td>
<td></td>
<td>&gt; 6 kg/cm²</td>
</tr>
</tbody>
</table>

### Dimension:

For more technical information, please contact us by:
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EQ - PP H35 Pneumatic Press Shielding Box

- Apply to Bluetooth, WCDMA, WLAN field
- Able to connect to computer by RS 232
- Match to various filters
- Customized fixture

**Specification:**

<table>
<thead>
<tr>
<th>Specification</th>
<th>Exterior Dimension (W×D×H)</th>
<th>Interior Dimension (W×D×H)</th>
<th>Material</th>
<th>Isolation</th>
<th>Power Input</th>
<th>Power Consumption</th>
<th>Input Pressure</th>
<th>Hose of Box</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>160×230×250 mm</td>
<td>135×200×150 mm</td>
<td>Aluminum alloy</td>
<td>&gt;70 dB (2.4 GHz and 5.8 GHz, without filter)</td>
<td>DC 24 V, 1 A</td>
<td>25 W</td>
<td>&gt; 6 kg/cm²</td>
<td>Φ 4 mm</td>
</tr>
<tr>
<td>Weight</td>
<td>10 kg</td>
<td>Open mode</td>
<td>SMA</td>
<td>Open mode</td>
<td>Hose of Box</td>
<td>Hose of Fixture</td>
<td></td>
<td>Φ 6 mm</td>
</tr>
<tr>
<td>SMA</td>
<td>SMA ×6</td>
<td>Drawer type</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hose of Box</td>
<td>Φ 6 mm</td>
<td>Φ 4 mm</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Dimension:**

![Diagram showing dimensions](image)

Unit:mm

For more technical information, please contact us by:
Tel: +36-29/550-940 | Email: info@equip-test.com | Web: www.equip-test.com
EQ - PP H45 Pneumatic Press Shielding Box

- Apply to Bluetooth, WCDMA, WLAN field
- Able to connect to computer by RS 232
- Match to various filters
- Customized fixture

**Specification:**

<table>
<thead>
<tr>
<th>Exterior Dimension (W×D×H)</th>
<th>310×330×300 mm</th>
<th>Interior Dimension (W×D×H)</th>
<th>250×250×200 mm</th>
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</thead>
<tbody>
<tr>
<td>Material</td>
<td>Aluminum alloy</td>
<td>Isolation</td>
<td>&gt;70 dB (2.4 GHz and 5.8G Hz, without filter)</td>
</tr>
<tr>
<td>Weight</td>
<td>14 kg</td>
<td>Open mode</td>
<td>Drawer type</td>
</tr>
<tr>
<td>SMA</td>
<td>SMA ×6</td>
<td>Hose of Box</td>
<td>Φ 6 mm</td>
</tr>
<tr>
<td>Power Input</td>
<td>DC 24 V, 1 A</td>
<td>Hose of Fixture</td>
<td>Φ 4 mm</td>
</tr>
<tr>
<td>Power Consumption</td>
<td>25 W</td>
<td>Input Pressure</td>
<td>&gt; 6 kg/cm²</td>
</tr>
</tbody>
</table>

**Dimension:**

For more technical information, please contact us by:
Tel: +36-29/550-940 | Email: info@equip-test.com | Web: www.equip-test.com
EQ - PP H55 Pneumatic Press Shielding Box

- Apply to Bluetooth, WCDMA, WLAN field
- Able to connect to computer by RS 232
- Match to various filters
- Customized fixture

**Specification:**

<table>
<thead>
<tr>
<th>Exterior Dimension (W×D×H)</th>
<th>Interior Dimension (W×D×H)</th>
<th>Material</th>
<th>Isolation</th>
<th>Weight</th>
<th>Open mode</th>
<th>Sma</th>
<th>Hose of Box</th>
<th>Power Input</th>
<th>Hose of Fixture</th>
<th>Power Consumption</th>
<th>Input Pressure</th>
</tr>
</thead>
<tbody>
<tr>
<td>410×460×515 mm</td>
<td>350×350×300 mm</td>
<td>Aluminum alloy</td>
<td>&gt;70 dB (2.4 GHz and 5.8 GHz, without filter)</td>
<td>18 kg</td>
<td>Open mode</td>
<td>SMA ×6</td>
<td>Φ 6 mm</td>
<td>DC 24 V, 1 A</td>
<td>Φ 4 mm</td>
<td>25 W</td>
<td>&gt; 6 kg/cm²</td>
</tr>
</tbody>
</table>

**Dimension:**

Unit: mm

For more technical information, please contact us by:
Tel: +36-29/550-940 | Email: info@equip-test.com | Web: www.equip-test.com
EQ - MP 404030 Manual Press Shielding Box

- Apply to Bluetooth, WCDMA, WLAN field
- Lift up as clamshell, easy to set the DUT
- Match to various filters

**Specification:**

<table>
<thead>
<tr>
<th>Exterior Dimension (W×D×H)</th>
<th>475×495×335 mm</th>
<th>Interior Dimension (W×D×H)</th>
<th>370×370×305 mm</th>
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</thead>
<tbody>
<tr>
<td>Material</td>
<td>Galvanized sheet steel</td>
<td>Isolation</td>
<td>&gt;80 dB (2.4 GHz and 5.8 GHz, without filter)</td>
</tr>
<tr>
<td>Weight</td>
<td>20 kg</td>
<td>Open mode</td>
<td>Lift up as clamshell</td>
</tr>
<tr>
<td>SMA</td>
<td>SMA ×6</td>
<td>Support</td>
<td>Gas spring</td>
</tr>
</tbody>
</table>

**Dimension:**

For more technical information, please contact us by:
Tel: +36-29/550-940 | Email: info@equip-test.com | Web: www.equip-test.com
EQ - MP 505040 Manual Press Shielding Box

- Apply to Bluetooth, WCDMA, WLAN field
- Lift up as clamshell, easy to set the DUT
- Match to various filters

**Specification:**

<table>
<thead>
<tr>
<th>Exterior Dimension (W×D×H)</th>
<th>555 × 560 × 405 mm</th>
<th>Interior Dimension (W×D×H)</th>
<th>445×445×370 mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Material</td>
<td>Galvanized sheet steel</td>
<td>Isolation</td>
<td>&gt;80 dB (2.4 GHz and 5.8 GHz, without filter)</td>
</tr>
<tr>
<td>Weight</td>
<td>25 kg</td>
<td>Open mode</td>
<td>Lift up as clamshell</td>
</tr>
<tr>
<td>SMA</td>
<td>SMA ×6</td>
<td>Support</td>
<td>Gas spring</td>
</tr>
</tbody>
</table>

**Dimension:**

For more technical information, please contact us by:
Tel: +36-29/550-940 | Email: info@equip-test.com | Web: www.equip-test.com
EQ - MP 454540 Manual Press Shielding Box

- Apply to Bluetooth, WCDMA, WLAN field
- Lift up as clamshell, easy to set the DUT
- Match to various filters

**Specification:**

<table>
<thead>
<tr>
<th>Exterior Dimension (W×D×H)</th>
<th>535×560×445 mm</th>
<th>Interior Dimension (W×D×H)</th>
<th>420×420×400 mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Material</td>
<td>Galvanized sheet steel</td>
<td>Isolation</td>
<td>&gt;80 dB (2.4 GHz and 5.8 GHz, without filter)</td>
</tr>
<tr>
<td>Weight</td>
<td>25 kg</td>
<td>Open mode</td>
<td>Lift up as clamshell</td>
</tr>
<tr>
<td>SMA</td>
<td>SMA ×6</td>
<td>Support</td>
<td>Gas spring</td>
</tr>
</tbody>
</table>

**Dimension:**

Unit: mm

For more technical information, please contact us by:
Tel: +36-29/550-940 | Email: info@equip-test.com | Web: www.equip-test.com
EQ - MP 352516 Manual Press Shielding Box

- Apply to Bluetooth, WCDMA, WLAN field
- Lid-open, easy to set the DUT
- Match to various filters

**Specification:**

<table>
<thead>
<tr>
<th>Exterior Dimension (W×D×H)</th>
<th>350×370×210 mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Interior Dimension (W×D×H)</td>
<td>220×320×135 mm</td>
</tr>
<tr>
<td>Material</td>
<td>Aluminum alloy</td>
</tr>
<tr>
<td></td>
<td>Isolation</td>
</tr>
<tr>
<td></td>
<td>&gt;80 dB (2.4 GHz and 5.8 GHz, without filter)</td>
</tr>
<tr>
<td>Weight</td>
<td>15 kg</td>
</tr>
<tr>
<td></td>
<td>Open mode</td>
</tr>
<tr>
<td></td>
<td>Lift up</td>
</tr>
<tr>
<td>SMA</td>
<td>SMA ×3</td>
</tr>
</tbody>
</table>

**Dimension:**

![Diagram of Shielding Box](image)

For more technical information, please contact us by:

Tel: +36-29/550-940  |  Email: info@equip-test.com  |  Web: www.equip-test.com
EQ - MP 302016 Manual Press Shielding Box

- Apply to Bluetooth, WCDMA, WLAN field
- Separable lid, easy to set the DUT
- Match to various filters

**Specification:**

<table>
<thead>
<tr>
<th>Exterior Dimension (WxDxH)</th>
<th>315×266×210 mm</th>
<th>Interior Dimension (WxDxH)</th>
<th>270×165×150 mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Material</td>
<td>Galvanized sheet steel</td>
<td>Isolation</td>
<td>&gt;80 dB (2.4 GHz and 5.8 GHz, without filter)</td>
</tr>
<tr>
<td>Weight</td>
<td>8 kg</td>
<td>Open mode</td>
<td>Separable lid</td>
</tr>
<tr>
<td>SMA</td>
<td>SMA ×3</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Dimension:**

Unit: mm

For more technical information, please contact us by:
Tel: +36-29/550-940 | Email: info@equip-test.com | Web: www.equip-test.com
EQ - MP F485 Manual Press Shielding Box

- Apply to Bluetooth, WCDMA, WLAN field
- side-open, easy to set the DUT
- Match to various filters

**Specification:**

<table>
<thead>
<tr>
<th></th>
<th>Exterior Dimension (W×D×H)</th>
<th>Interior Dimension (W×D×H)</th>
<th>Material</th>
<th>Isolation</th>
<th>Weight</th>
<th>Open mode</th>
<th>Vent</th>
<th>SMA</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>545 x 616 x 430 mm</td>
<td>455 x 530 x 380 mm</td>
<td>Aluminum alloy</td>
<td>&gt;80 dB (2.4 GHz and 5.8 GHz, without filter)</td>
<td>40 kg</td>
<td>Side open</td>
<td>2</td>
<td>SMA ×9</td>
</tr>
</tbody>
</table>

**Dimension:**

For more technical information, please contact us by:
Tel: +36-29/550-940  | Email: info@equip-test.com  | Web: www.equip-test.com
EQ - MP F385 Manual Press Shielding Box

- Apply to Bluetooth, WCDMA, WLAN field
- Side-open, easy to set the DUT
- Match to various filters

**Specification:**

<table>
<thead>
<tr>
<th>Exterior Dimension (W×D×H)</th>
<th>445×590×430 mm</th>
<th>Interior Dimension (W×D×H)</th>
<th>350×500×380 mm</th>
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</thead>
<tbody>
<tr>
<td>Material</td>
<td>Aluminum alloy</td>
<td>Isolation</td>
<td>&gt;80 dB (2.4 GHz and 5.8 GHz, without filter)</td>
</tr>
<tr>
<td>Weight</td>
<td>35 kg</td>
<td>Open mode</td>
<td>Side open</td>
</tr>
<tr>
<td>SMA</td>
<td>SMA ×9</td>
<td>Vent</td>
<td>2</td>
</tr>
</tbody>
</table>

**Dimension:**

Unit: mm

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FILTER

- Fit in with all shielding boxes
- Various connectors to choose
- High isolation

Optional interface:

<table>
<thead>
<tr>
<th>Interface Size</th>
<th>RJ45</th>
<th>USB</th>
<th>DC</th>
<th>RJ11</th>
<th>PS2</th>
<th>RCA</th>
<th>USB(雙層)</th>
<th>AC</th>
<th>RS232</th>
<th>HDMI</th>
<th>VGA</th>
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<tbody>
<tr>
<td>A</td>
<td>v</td>
<td>v</td>
<td>v</td>
<td>v</td>
<td>v</td>
<td>v</td>
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<td></td>
<td></td>
<td>v</td>
<td>v</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Type</th>
<th>Voltage withstand</th>
<th>Current withstand</th>
<th>Frequency</th>
<th>Shield Effectiveness</th>
</tr>
</thead>
<tbody>
<tr>
<td>RS232</td>
<td>50 V</td>
<td>200 mA</td>
<td>600 MHz</td>
<td>&gt;80 dB</td>
</tr>
<tr>
<td>VGA</td>
<td>50 V</td>
<td>200 mA</td>
<td>600 MHz</td>
<td>&gt;80 dB</td>
</tr>
<tr>
<td>HDMI</td>
<td>50 V</td>
<td>200 mA</td>
<td>600 MHz</td>
<td>&gt;80 dB</td>
</tr>
<tr>
<td>AC</td>
<td>250 V</td>
<td>2000 mA</td>
<td>600 MHz</td>
<td>&gt;80 dB</td>
</tr>
<tr>
<td>USB</td>
<td>50 V</td>
<td>200 mA</td>
<td>600 MHz</td>
<td>&gt;80 dB</td>
</tr>
<tr>
<td>RJ45</td>
<td>50 V</td>
<td>200 mA</td>
<td>600 MHz</td>
<td>&gt;80 dB</td>
</tr>
<tr>
<td>RJ11</td>
<td>50 V</td>
<td>200 mA</td>
<td>600 MHz</td>
<td>&gt;80 dB</td>
</tr>
<tr>
<td>PS2</td>
<td>50 V</td>
<td>200 mA</td>
<td>600 MHz</td>
<td>&gt;80 dB</td>
</tr>
<tr>
<td>DC</td>
<td>50 V</td>
<td>2000 mA</td>
<td>600 MHz</td>
<td>&gt;80 dB</td>
</tr>
<tr>
<td>RCA</td>
<td>50 V</td>
<td>2000 mA</td>
<td>600 MHz</td>
<td>&gt;80 dB</td>
</tr>
</tbody>
</table>

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RF Adapter

<table>
<thead>
<tr>
<th>Connector</th>
<th>Product Number</th>
<th>Frequency</th>
<th>Impedance</th>
</tr>
</thead>
<tbody>
<tr>
<td>SMA(F)-SMA(F)</td>
<td>ADP-SMAFSSMAF50L02</td>
<td>DC-10 GHz</td>
<td>50 Ω</td>
</tr>
<tr>
<td>RSMA(F)-RSMA(F)</td>
<td>ADP-SMAFRRSMAF0E01</td>
<td>DC-10 GHz</td>
<td>50 Ω</td>
</tr>
<tr>
<td>SMA(F)-RSMA(F)</td>
<td>ADP-SMAFRSMAF50L02</td>
<td>DC-10 GHz</td>
<td>50 Ω</td>
</tr>
<tr>
<td>SMA(F)-RSMA(M)</td>
<td>ADP-SMAMRSMAF50L02</td>
<td>DC-10 GHz</td>
<td>50 Ω</td>
</tr>
<tr>
<td>RSMA(M) quick to SMA(F)</td>
<td>ADP-SMAMRQSMAF50L01</td>
<td>DC-10 GHz</td>
<td>50 Ω</td>
</tr>
<tr>
<td>SMA(M)-RSMA(F)</td>
<td>ADP-SMAMSSMAFR0L02</td>
<td>DC-10 GHz</td>
<td>50 Ω</td>
</tr>
<tr>
<td>SMA(M)-SMA(F)</td>
<td>ADP-SMAFSSMAF50L02</td>
<td>DC-10 GHz</td>
<td>50 Ω</td>
</tr>
<tr>
<td>RSMA(M)-RSMA(M)</td>
<td>ADP-SMAMRSMAMR0E01</td>
<td>DC-10 GHz</td>
<td>50 Ω</td>
</tr>
<tr>
<td>SMA(M)-SMA(M)</td>
<td>ADP-SMAMSSMAMS0L02</td>
<td>DC-10 GHz</td>
<td>50 Ω</td>
</tr>
<tr>
<td>N(M)-SMA(F)</td>
<td>ADP-NMSMAFR001</td>
<td>DC-6 GHz</td>
<td>50 Ω</td>
</tr>
</tbody>
</table>

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Fix Attenuator DC to 6 GHz

**Features:**
- Wideband coverage, DC to 6 GHz
- 1 Watt rating
- Rugged unibody construction
- Off-the-shelf availability
- Very low cost

**Application:**
- Impedance matching
- Signal level adjustment

**Specification:**

<table>
<thead>
<tr>
<th>Freq. Range (MHz)</th>
<th>Attenuation * (dB)</th>
<th>Flatness ** (:1)</th>
<th>V.S.W.R.</th>
<th>MAX. Input Power (W)</th>
</tr>
</thead>
<tbody>
<tr>
<td>DC-6000</td>
<td>0.3±1</td>
<td>0.20</td>
<td>0.20</td>
<td>0.60</td>
</tr>
<tr>
<td>DC-6000</td>
<td>0.3±2</td>
<td>0.20</td>
<td>0.20</td>
<td>0.25</td>
</tr>
<tr>
<td>DC-6000</td>
<td>0.3±3</td>
<td>0.20</td>
<td>0.15</td>
<td>0.15</td>
</tr>
<tr>
<td>DC-6000</td>
<td>0.3±5</td>
<td>0.10</td>
<td>0.10</td>
<td>0.10</td>
</tr>
<tr>
<td>DC-6000</td>
<td>0.3±6</td>
<td>0.15</td>
<td>0.10</td>
<td>0.20</td>
</tr>
<tr>
<td>DC-6000</td>
<td>0.3±10</td>
<td>0.10</td>
<td>0.20</td>
<td>0.15</td>
</tr>
<tr>
<td>DC-6000</td>
<td>0.3±20</td>
<td>0.45</td>
<td>0.75</td>
<td>0.35</td>
</tr>
<tr>
<td>DC-6000</td>
<td>0.3±30</td>
<td>0.70</td>
<td>0.30</td>
<td>0.20</td>
</tr>
</tbody>
</table>

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Outline Drawing

Outline Dimensions (inch mm)

<table>
<thead>
<tr>
<th>B</th>
<th>D</th>
<th>E</th>
<th>wt</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.410</td>
<td>1.430</td>
<td>0.312</td>
<td>grams</td>
</tr>
<tr>
<td>10.41</td>
<td>6.32</td>
<td>7.92</td>
<td>10.00</td>
</tr>
</tbody>
</table>

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Fix Attenuator DC to 6 GHz

Features:

- Wideband coverage, DC to 6 GHz
- 2 Watt rating
- Impedance : 50 Ω
- Rugged unibody construction
- Off-the-shelf availability
- Very low cost

Application:

- Impedance matching
- Signal level adjustment

Specification:

<table>
<thead>
<tr>
<th>P/No</th>
<th>Frequency Range (MHz)</th>
<th>Attenuation* (dB)</th>
<th>V.S.W.R. (max.)</th>
<th>MAX. Input Power (W)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ATT-FSMA001ST01</td>
<td>DC-6000</td>
<td>01±0.5</td>
<td>1.3</td>
<td>2.0</td>
</tr>
<tr>
<td>ATT-FSMA002ST01</td>
<td>DC-6000</td>
<td>02±0.5</td>
<td>1.3</td>
<td>2.0</td>
</tr>
<tr>
<td>ATT-FSMA003ST01</td>
<td>DC-6000</td>
<td>03±0.5</td>
<td>1.3</td>
<td>2.0</td>
</tr>
<tr>
<td>ATT-FSMA005ST01</td>
<td>DC-6000</td>
<td>05±0.5</td>
<td>1.3</td>
<td>2.0</td>
</tr>
<tr>
<td>ATT-FSMA006ST01</td>
<td>DC-6000</td>
<td>06±0.5</td>
<td>1.3</td>
<td>2.0</td>
</tr>
<tr>
<td>ATT-FSMA010ST01</td>
<td>DC-6000</td>
<td>10±0.5</td>
<td>1.3</td>
<td>2.0</td>
</tr>
<tr>
<td>ATT-FSMA020ST01</td>
<td>DC-6000</td>
<td>20±0.5</td>
<td>1.3</td>
<td>2.0</td>
</tr>
<tr>
<td>ATT-FSMA030ST01</td>
<td>DC-6000</td>
<td>30±0.5</td>
<td>1.3</td>
<td>2.0</td>
</tr>
</tbody>
</table>

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Fix Attenuator DC to 18 GHz

**Features:**

- Wideband coverage, DC to 18 GHz
- 2 Watt rating
- Impedance: 50 Ω
- Rugged unibody construction
- Off-the-shelf availability
- Very low cost

**Specification:**

<table>
<thead>
<tr>
<th>P/No</th>
<th>Frequency Range (GHz)</th>
<th>Attenuation Nom. (dB)</th>
<th>V.S.W.R. (max.) DC-4 GHz</th>
<th>4 - 12.4 GHz</th>
<th>12.4 - 18 GHz</th>
</tr>
</thead>
<tbody>
<tr>
<td>ATT-FSMA003S001</td>
<td>DC-18</td>
<td>3±0.3</td>
<td>1.15:1</td>
<td>1.25:1</td>
<td>1.50:1</td>
</tr>
<tr>
<td>ATT-FSMA006S001</td>
<td>DC-18</td>
<td>6±0.3</td>
<td>1.15:1</td>
<td>1.25:1</td>
<td>1.50:1</td>
</tr>
<tr>
<td>ATT-FSMA010S001</td>
<td>DC-18</td>
<td>10±0.5</td>
<td>1.15:1</td>
<td>1.25:1</td>
<td>1.50:1</td>
</tr>
<tr>
<td>ATT-FSMA020S001</td>
<td>DC-18</td>
<td>20±0.7</td>
<td>1.15:1</td>
<td>1.25:1</td>
<td>1.50:1</td>
</tr>
</tbody>
</table>

**Application:**

- Impedance matching
- Signal level adjustment

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Coaxial Cable Assembly

Cables on the picture (from left to right):
1. SS402  2. SS405  3. 1.13
4. RG178  5. RG316  6. RG142
7. RG400  8. CFD200  9. CFD400

Reprocess Method:

Length:
1. 30 cm  2. 60 cm  3. 100 cm
4. Customized length available

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<table>
<thead>
<tr>
<th>Cable</th>
<th>Connector</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>SMA</td>
</tr>
<tr>
<td>SS402 (0.141)</td>
<td>•</td>
</tr>
<tr>
<td>SS405 (0.085)</td>
<td>•</td>
</tr>
<tr>
<td>1.13</td>
<td>•</td>
</tr>
<tr>
<td>RG178</td>
<td>•</td>
</tr>
<tr>
<td>RG316</td>
<td>•</td>
</tr>
<tr>
<td>RG142</td>
<td>•</td>
</tr>
<tr>
<td>RG400</td>
<td>•</td>
</tr>
<tr>
<td>RG179</td>
<td>•</td>
</tr>
<tr>
<td>RG223</td>
<td>•</td>
</tr>
<tr>
<td>CFD200</td>
<td>•</td>
</tr>
<tr>
<td>CFD400</td>
<td>•</td>
</tr>
<tr>
<td>CFD500</td>
<td>•</td>
</tr>
<tr>
<td>CFD600</td>
<td>•</td>
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</tbody>
</table>
## Physical Characteristics

<table>
<thead>
<tr>
<th></th>
<th>1.13</th>
<th>SS402</th>
<th>RG178</th>
<th>SS405</th>
<th>RG316</th>
<th>RG142</th>
</tr>
</thead>
<tbody>
<tr>
<td>Center-conductor diameter</td>
<td>0.24 mm</td>
<td>.037” (7/0.004”)</td>
<td>.012” (7/0.004”)</td>
<td>.0201” (7/0.0067”)</td>
<td>.0201” (7/0.0067”)</td>
<td>.037”</td>
</tr>
<tr>
<td>Dielectric diameter</td>
<td>0.68±0.05 mm</td>
<td>.117”</td>
<td>.033”</td>
<td>.064”</td>
<td>.060”</td>
<td>.116”</td>
</tr>
<tr>
<td>Inner shield diameter</td>
<td>0.93 mm</td>
<td>.128”</td>
<td>*</td>
<td>.071”</td>
<td>*</td>
<td>*</td>
</tr>
<tr>
<td>Outer shield diameter</td>
<td>*</td>
<td>.141”</td>
<td>*</td>
<td>.086”</td>
<td>*</td>
<td>*</td>
</tr>
<tr>
<td>Overall diameter</td>
<td>1.13 mm</td>
<td>.163”</td>
<td>.071”</td>
<td>.104”</td>
<td>.098”</td>
<td>.195”</td>
</tr>
<tr>
<td>Weight (lbs./MFT)</td>
<td>*</td>
<td>32</td>
<td>6.3</td>
<td>14</td>
<td>12.2</td>
<td>43.0</td>
</tr>
<tr>
<td>Operating temperature range(°C)</td>
<td>-55 to +200</td>
<td>-55 to +200</td>
<td>-55 to +200</td>
<td>-55 to +200</td>
<td>-55 to +200</td>
<td>-55 to +200</td>
</tr>
<tr>
<td>Minimum recommended -bend radius</td>
<td>*</td>
<td>0.8”</td>
<td>0.4”</td>
<td>0.5”</td>
<td>0.5”</td>
<td>1.0”</td>
</tr>
</tbody>
</table>

## Electrical Characteristics

<table>
<thead>
<tr>
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<th>1.13</th>
<th>SS402</th>
<th>RG178</th>
<th>SS405</th>
<th>RG316</th>
<th>RG142</th>
</tr>
</thead>
<tbody>
<tr>
<td>Impedance (Ohms)</td>
<td>50</td>
<td>50</td>
<td>50</td>
<td>50</td>
<td>50</td>
<td>50</td>
</tr>
<tr>
<td>Capacitance (pf/ft)</td>
<td>Nom.98 (pf/m)</td>
<td>29.4</td>
<td>29.4</td>
<td>29.4</td>
<td>29.4</td>
<td>29.4</td>
</tr>
<tr>
<td>Velocity-of propagation (%)</td>
<td>*</td>
<td>69.4</td>
<td>1000 (max. Operating Voltage-RMS)</td>
<td>69.4</td>
<td>1200 (max. Operating Voltage-RMS)</td>
<td>1900 (max. Operating Voltage-RMS)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th>400 MHz</th>
<th>1 GHz</th>
<th>3 GHz</th>
<th>5 GHz</th>
<th>10 GHz</th>
<th>18 GHz</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum attenuation (db/100 ft.)</td>
<td>*</td>
<td>8.0</td>
<td>33.0</td>
<td>14.0</td>
<td>21.0</td>
<td>11.7</td>
</tr>
<tr>
<td></td>
<td>61.0</td>
<td>13.0</td>
<td>52.0</td>
<td>23.0</td>
<td>38.0</td>
<td>19.0</td>
</tr>
<tr>
<td></td>
<td>109.83</td>
<td>23.0</td>
<td>94.0</td>
<td>39.0</td>
<td>58.0</td>
<td>35.0</td>
</tr>
<tr>
<td></td>
<td>143.38</td>
<td>30.0</td>
<td>*</td>
<td>52.0</td>
<td>*</td>
<td>48.0</td>
</tr>
<tr>
<td></td>
<td>158.64 (6 GHz)</td>
<td>45.0</td>
<td>*</td>
<td>80.0</td>
<td>*</td>
<td>*</td>
</tr>
<tr>
<td></td>
<td>*</td>
<td>64.0</td>
<td>*</td>
<td>110.0</td>
<td>*</td>
<td>*</td>
</tr>
</tbody>
</table>

---

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### Physical Characteristics

<table>
<thead>
<tr>
<th></th>
<th>RG400</th>
<th>RG179</th>
<th>RG223</th>
<th>CFD200</th>
<th>CFD400</th>
<th>CFD500/CFD600</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Center-conductor</strong></td>
<td>0.0384&quot; (19/0.008&quot;)</td>
<td>0.0120&quot; (7/0.004&quot;)</td>
<td>0.90±0.01 mm</td>
<td>1.12 mm</td>
<td>2.74 mm</td>
<td>3.61/4.90 mm</td>
</tr>
<tr>
<td><strong>Dielectric diameter</strong></td>
<td>0.116</td>
<td>0.063*</td>
<td>2.95±0.05 mm</td>
<td>2.95 mm</td>
<td>7.24 mm</td>
<td>9.41/12.5 mm</td>
</tr>
<tr>
<td><strong>Inner shield</strong></td>
<td></td>
<td>*</td>
<td></td>
<td>3.07 mm</td>
<td>7.35 mm</td>
<td>9.58/*</td>
</tr>
<tr>
<td><strong>Outer shield</strong></td>
<td></td>
<td>*</td>
<td></td>
<td>3.66 mm</td>
<td>8.1 mm</td>
<td>10.2/14.0 mm</td>
</tr>
<tr>
<td><strong>Overall diameter</strong></td>
<td>0.195&quot;</td>
<td>0.100&quot;</td>
<td>5.4±0.1 mm</td>
<td>5.0 mm</td>
<td>10.3 mm</td>
<td>16.0 mm</td>
</tr>
<tr>
<td><strong>Weight (lbs./MFT)</strong></td>
<td>50.0</td>
<td>10.8</td>
<td>*</td>
<td>0.04 kg/m</td>
<td>0.103 kg/m-PE</td>
<td>0.13 kg/m</td>
</tr>
<tr>
<td><strong>Operating temperature range(°C)</strong></td>
<td>-55 to +200</td>
<td>-55 to +200</td>
<td>-15 to +55 (-40 to)</td>
<td>-20 to +60</td>
<td>-40 to +85</td>
<td>-40 to +85 /-40</td>
</tr>
<tr>
<td><strong>Minimum recommended -bend radius</strong></td>
<td>1.0&quot;</td>
<td>0.4&quot;</td>
<td></td>
<td>27 mm</td>
<td>12.7 mm</td>
<td>to +80</td>
</tr>
</tbody>
</table>

### Electrical Characteristics

<table>
<thead>
<tr>
<th></th>
<th>RG400</th>
<th>RG179</th>
<th>RG223</th>
<th>CFD200</th>
<th>CFD400</th>
<th>CFD500/CFD600</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Impedance (Ohms)</strong></td>
<td>50</td>
<td>75</td>
<td>50</td>
<td>50</td>
<td>50</td>
<td>50/50</td>
</tr>
<tr>
<td><strong>Capacitance (pf/ft)</strong></td>
<td>29.4</td>
<td>19.4</td>
<td>100 pf/m</td>
<td>80.4 pf/m</td>
<td>76.0 pf/m</td>
<td>77/75 pf/m</td>
</tr>
<tr>
<td><strong>Velocity-of propagation (%)</strong></td>
<td>1900 (max. Operating Voltage-RMS)</td>
<td>1200 (max. Operating Voltage-RMS)</td>
<td>66%</td>
<td>85%</td>
<td>85%</td>
<td>86%/88%</td>
</tr>
</tbody>
</table>

### Maximum attenuation (db/100 ft.)

<table>
<thead>
<tr>
<th></th>
<th>RG400</th>
<th>RG179</th>
<th>RG223</th>
<th>CFD200</th>
<th>CFD400</th>
<th>CFD500/CFD600</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>400 MHz</strong></td>
<td>10.5</td>
<td>21.0</td>
<td>28.4</td>
<td>22.8 (0.45G)</td>
<td>8.9 (0.45G)</td>
<td>7.1/5.0 (0.45G)</td>
</tr>
<tr>
<td><strong>1 GHz</strong></td>
<td>17.0</td>
<td>*</td>
<td>45.9</td>
<td>32.6 (0.9G)</td>
<td>12.8 (0.9G)</td>
<td>10.3/7.3 (0.9G)</td>
</tr>
<tr>
<td><strong>3 GHz</strong></td>
<td>38.0</td>
<td>*</td>
<td>83.1</td>
<td>55.4 (2.5G)</td>
<td>22.2 (2.5G)</td>
<td>18(2.5G)/12.5(2.4G)</td>
</tr>
<tr>
<td><strong>5 GHz</strong></td>
<td>50.0</td>
<td>*</td>
<td>112.7</td>
<td>86.5 (5.8G)</td>
<td>35.5 (5.8G)</td>
<td>29.1(5.8G)/14.5(3G)</td>
</tr>
<tr>
<td><strong>10 GHz</strong></td>
<td>78.0</td>
<td>*</td>
<td>*</td>
<td>*</td>
<td>*</td>
<td>*</td>
</tr>
<tr>
<td><strong>18 GHz</strong></td>
<td>*</td>
<td>*</td>
<td>*</td>
<td>*</td>
<td>*</td>
<td>*</td>
</tr>
</tbody>
</table>

For more technical information, please contact us by:
Tel: +36-29/550-940  | Email: info@equip-test.com | Web: www.equip-test.com
Card Bus Adapter

Card Bus to Mini PCI

Card Bus to Card Bus

Card Bus to PCI

PCle to PCle Extend Card

PCle to Mini Card

For more technical information, please contact us by:
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SMA (M)-SMA (F) 50 Ω DC Block

Features:

- Frequency Range: 0.1 - 8 GHz
- Impedance: 50 Ω
- Broadband performance
- Low insertion loss
- Rugged unibody construction
- Off-the-shelf availability

Application:

- Test and measurement instrumentation
- Communication systems
- Defense systems

<table>
<thead>
<tr>
<th>FREQUENCY (GHz)</th>
<th>Insertion Loss (dB)</th>
<th>Return Loss (dB)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Typ</td>
<td>max.</td>
</tr>
<tr>
<td>0.0001-0.1</td>
<td>0.010</td>
<td>0.09</td>
</tr>
<tr>
<td>0.01-1.0</td>
<td>0.10</td>
<td>0.3</td>
</tr>
<tr>
<td>1.0-4.0</td>
<td>0.15</td>
<td>0.8</td>
</tr>
<tr>
<td>4.0-8.0</td>
<td>0.5</td>
<td>0.9</td>
</tr>
</tbody>
</table>

For more technical information, please contact us by:
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DC Block

Test Report:

![Insertion Loss Graph](image1)

![Return Loss Graph](image2)

For more technical information, please contact us by:
Tel: +36-29/550-940 | Email: info@equip-test.com | Web: www.equip-test.com
SMA (M) - SMA (F) 50 Ω DC Block

Features:

- Frequency Range : 0.1 - 18 GHz
- Impedance : 50 Ω
- Broadband performance
- Low insertion loss
- Rugged unibody construction
- Off-the-shelf availability

Application:

- Test and measurement instrumentation
- Communication systems
- Defense systems

Specification:

<table>
<thead>
<tr>
<th>FREQUENCY (GHz)</th>
<th>Insertion Loss (dB)</th>
<th>Return Loss (dB)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Typ</td>
<td>max.</td>
</tr>
<tr>
<td>0.01-0.1</td>
<td>0.02</td>
<td>0.2</td>
</tr>
<tr>
<td>0.1-1.0</td>
<td>0.07</td>
<td>0.3</td>
</tr>
<tr>
<td>1.0-4.0</td>
<td>0.15</td>
<td>0.5</td>
</tr>
<tr>
<td>4.0-8.0</td>
<td>0.38</td>
<td>1.0</td>
</tr>
<tr>
<td>8.0-18.0</td>
<td>1.00</td>
<td>--</td>
</tr>
</tbody>
</table>

For more technical information, please contact us by:
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Outline Drawing:

Outline Dimensions (inches):

<table>
<thead>
<tr>
<th>B</th>
<th>D</th>
<th>E</th>
<th>wt</th>
</tr>
</thead>
<tbody>
<tr>
<td>.410</td>
<td>1.18</td>
<td>.312</td>
<td>grams</td>
</tr>
<tr>
<td>10.41</td>
<td>20.97</td>
<td>7.92</td>
<td>7.0</td>
</tr>
</tbody>
</table>

Test Report:

For more technical information, please contact us by:

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**Power Divider 2 way**

**Features:**
- Flat Frequency Response.
- Frequency Range: 0.5-18 GHz
  Multi-Octave Bandwidths.
- Temperature Range: -54 ºC to +125 ºC Meets MIL-E-5400 Environments
- 2 Watt rating

**Application:**
- Test equipments
- Broadband assemblies
- For system building

**Specification:**

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>DIV-SMA02T009</td>
<td>1-8 GHz</td>
<td>1.2 dB</td>
<td>1.35</td>
<td>1.39</td>
<td>18</td>
<td>20</td>
<td>3</td>
<td>0.3 dB</td>
</tr>
<tr>
<td>DIV-SMA02T004</td>
<td>2-18 GHz</td>
<td>1.2 dB</td>
<td>1.50</td>
<td>1.50</td>
<td>16</td>
<td>20</td>
<td>3</td>
<td>0.4 dB</td>
</tr>
<tr>
<td>DIV-SMA02T010</td>
<td>0.5-2.4 GHz</td>
<td>0.4 dB</td>
<td>1.25</td>
<td>1.20</td>
<td>22</td>
<td>20</td>
<td>3</td>
<td>0.3 dB</td>
</tr>
<tr>
<td>DIV-SMA02T008</td>
<td>0.8-2.4 GHz</td>
<td>0.4 dB</td>
<td>1.30</td>
<td>1.20</td>
<td>22</td>
<td>20</td>
<td>3</td>
<td>0.2 dB</td>
</tr>
<tr>
<td>DIV-SMA02T005</td>
<td>1-4 GHz</td>
<td>0.4 dB</td>
<td>1.25</td>
<td>1.20</td>
<td>20</td>
<td>20</td>
<td>2</td>
<td>0.3 dB</td>
</tr>
<tr>
<td>DIV-SMA02T001</td>
<td>2-8 GHz</td>
<td>0.6 dB</td>
<td>1.25</td>
<td>1.20</td>
<td>18</td>
<td>20</td>
<td>3</td>
<td>0.3 dB</td>
</tr>
<tr>
<td>DIV-SMA02T011</td>
<td>4-18 GHz</td>
<td>0.8 dB</td>
<td>1.50</td>
<td>1.5</td>
<td>18</td>
<td>10</td>
<td>2</td>
<td>0.4 dB</td>
</tr>
<tr>
<td>DIV-SMA02T003</td>
<td>1-2 GHz</td>
<td>0.3 dB</td>
<td>1.20</td>
<td>1.15</td>
<td>22</td>
<td>20</td>
<td>3</td>
<td>0.2 dB</td>
</tr>
<tr>
<td>DIV-SMA02T012</td>
<td>2-4 GHz</td>
<td>0.3 dB</td>
<td>1.25</td>
<td>1.20</td>
<td>22</td>
<td>20</td>
<td>3</td>
<td>0.2 dB</td>
</tr>
<tr>
<td>DIV-SMA02T013</td>
<td>4-8 GHz</td>
<td>0.45 dB</td>
<td>1.25</td>
<td>1.20</td>
<td>20</td>
<td>20</td>
<td>3</td>
<td>0.2 dB</td>
</tr>
<tr>
<td>DIV-SMA02T014</td>
<td>6-18 GHz</td>
<td>0.7 dB</td>
<td>1.50</td>
<td>1.50</td>
<td>18</td>
<td>10</td>
<td>2</td>
<td>0.4 dB</td>
</tr>
</tbody>
</table>

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Power Divider 4 way

Features:

- Flat Frequency Response.
- Frequency Range: 0.5-18 GHz
- Multi-Octave Bandwidths.
- Temperature Range: -54 ºC to +125 ºC Meets MIL-E-5400 Environments
- 2 Watt rating

Application:

- Test equipments
- Broadband assemblies
- For system building

Specification:

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>DIV-SMA04T005</td>
<td>1-8 GHz</td>
<td>2.0 dB</td>
<td>1.50</td>
<td>1.40</td>
<td>15</td>
<td>20</td>
<td>3</td>
<td>0.4 dB</td>
</tr>
<tr>
<td>DIV-SMA04T003</td>
<td>2-18 GHz</td>
<td>2.2 dB</td>
<td>1.65</td>
<td>1.60</td>
<td>15</td>
<td>20</td>
<td>2</td>
<td>0.6 dB</td>
</tr>
<tr>
<td>DIV-SMA04T006</td>
<td>0.5-2 GHz</td>
<td>0.8 dB</td>
<td>1.25</td>
<td>1.20</td>
<td>20</td>
<td>20</td>
<td>3</td>
<td>0.3 dB</td>
</tr>
<tr>
<td>DIV-SMA04T007</td>
<td>0.8-2.4 GHz</td>
<td>0.7 dB</td>
<td>1.25</td>
<td>1.20</td>
<td>20</td>
<td>20</td>
<td>3</td>
<td>0.3 dB</td>
</tr>
<tr>
<td>DIV-SMA04T002</td>
<td>1-4 GHz</td>
<td>0.7 dB</td>
<td>1.25</td>
<td>1.20</td>
<td>20</td>
<td>20</td>
<td>3</td>
<td>0.3 dB</td>
</tr>
<tr>
<td>DIV-SMA04T001</td>
<td>2-8 GHz</td>
<td>1.0 dB</td>
<td>1.30</td>
<td>1.25</td>
<td>18</td>
<td>20</td>
<td>3</td>
<td>0.3 dB</td>
</tr>
<tr>
<td>DIV-SMA04T008</td>
<td>4-18 GHz</td>
<td>1.6 dB</td>
<td>1.60</td>
<td>1.50</td>
<td>18</td>
<td>10</td>
<td>2</td>
<td>0.5 dB</td>
</tr>
<tr>
<td>DIV-SMA04T009</td>
<td>1-2 GHz</td>
<td>0.4 dB</td>
<td>1.20</td>
<td>1.20</td>
<td>22</td>
<td>20</td>
<td>3</td>
<td>0.3 dB</td>
</tr>
<tr>
<td>DIV-SMA04T010</td>
<td>2-4 GHz</td>
<td>0.4 dB</td>
<td>1.25</td>
<td>1.20</td>
<td>22</td>
<td>20</td>
<td>3</td>
<td>0.3 dB</td>
</tr>
<tr>
<td>DIV-SMA04T011</td>
<td>4-8 GHz</td>
<td>0.6 dB</td>
<td>1.30</td>
<td>1.25</td>
<td>18</td>
<td>20</td>
<td>3</td>
<td>0.3 dB</td>
</tr>
<tr>
<td>DIV-SMA04T012</td>
<td>6-18 GHz</td>
<td>1.3 dB</td>
<td>1.60</td>
<td>1.60</td>
<td>18</td>
<td>20</td>
<td>2</td>
<td>0.5 dB</td>
</tr>
</tbody>
</table>

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Power Divider 8 way

Features:

- Flat Frequency Response.
- Frequency Range: 0.5-18 GHz
- Multi-Octave Bandwidths.
- Temperature Range: -54 °C to +125 °C Meets MIL-E-5400 Environments
- 2 Watt rating

Application:

- Test equipments
- Broadband assemblies
- For system building

 Specification:

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
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<th></th>
<th></th>
<th></th>
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<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>DIV-SMA08T004</td>
<td>0.5-2 GHz</td>
<td>1.4 dB</td>
<td>1.40</td>
<td>1.25</td>
<td>20</td>
<td>20</td>
<td>3</td>
<td>0.5 dB</td>
<td>12</td>
</tr>
<tr>
<td>DIV-SMA08T003</td>
<td>0.8-2.4 GHz</td>
<td>1.0 dB</td>
<td>1.40</td>
<td>1.25</td>
<td>20</td>
<td>20</td>
<td>3</td>
<td>0.5 dB</td>
<td>8</td>
</tr>
<tr>
<td>DIV-SMA08T001</td>
<td>1-4 GHz</td>
<td>1.2 dB</td>
<td>1.35</td>
<td>1.30</td>
<td>20</td>
<td>20</td>
<td>3</td>
<td>0.5 dB</td>
<td>10</td>
</tr>
<tr>
<td>DIV-SMA08T002</td>
<td>2-8 GHz</td>
<td>1.6 dB</td>
<td>1.70</td>
<td>1.60</td>
<td>18</td>
<td>20</td>
<td>3</td>
<td>0.5 dB</td>
<td>12</td>
</tr>
<tr>
<td>DIV-SMA08T005</td>
<td>4-18 GHz</td>
<td>1.2 dB</td>
<td>1.70</td>
<td>1.60</td>
<td>18</td>
<td>10</td>
<td>2</td>
<td>0.8 dB</td>
<td>12</td>
</tr>
<tr>
<td>DIV-SMA08T006</td>
<td>1-2 GHz</td>
<td>0.8 dB</td>
<td>1.25</td>
<td>1.20</td>
<td>20</td>
<td>20</td>
<td>3</td>
<td>0.4 dB</td>
<td>5</td>
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<td>0.8 dB</td>
<td>1.25</td>
<td>1.20</td>
<td>20</td>
<td>20</td>
<td>3</td>
<td>0.4 dB</td>
<td>5</td>
</tr>
<tr>
<td>DIV-SMA08T008</td>
<td>4-8 GHz</td>
<td>1.4 dB</td>
<td>1.50</td>
<td>1.25</td>
<td>18</td>
<td>20</td>
<td>2</td>
<td>0.6 dB</td>
<td>10</td>
</tr>
<tr>
<td>DIV-SMA08T009</td>
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<td>1.80</td>
<td>18</td>
<td>10</td>
<td>2</td>
<td>0.6 dB</td>
<td>12</td>
</tr>
</tbody>
</table>

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### Probe

<table>
<thead>
<tr>
<th>HRMJ-W.FLP-ST1</th>
<th>HRMJ-U.FLP-ST1</th>
</tr>
</thead>
<tbody>
<tr>
<td>- Lock Function</td>
<td>- U.FL side plug-SMA side jack</td>
</tr>
<tr>
<td>- For RF connector</td>
<td>- For RF connector</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>HRMJ-W.FLP-ST3</th>
<th>MM126036</th>
</tr>
</thead>
<tbody>
<tr>
<td>- Lock Function</td>
<td>- Auto measurement probe</td>
</tr>
<tr>
<td>- For RF connector</td>
<td>- For switch connector</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>MM126314</th>
<th>ARUM-30C</th>
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</thead>
<tbody>
<tr>
<td>- Auto Measurement</td>
<td>- Simplified lock, Straight, short</td>
</tr>
<tr>
<td>- For switch connector</td>
<td>- For switch connector</td>
</tr>
</tbody>
</table>

For more technical information, please contact us by:
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Coaxial Switch

Features:

- Low Insertion Loss
- High Isolation
- Frequency Range: DC to 18 GHz

Description:

SWT Series units meet MIL-E-5400 Class 1 and feature 3, 4, 6, and 10 positions normally open, failsafe to position 1 and magnetic latching coaxial switches with break before make contacts.

Specification:

- Actuator Operating Voltage: 24 VDC
- Actuator Operating Current: 270 mA max. @ 24V and 20 ºC
- Switching Time: 20 milliseconds
- Operating Temperature Range: -25 ºC to +65 ºC

<table>
<thead>
<tr>
<th>Frequency Range</th>
<th>V.S.W.R. (max.)</th>
<th>Insertion Loss (max.)</th>
<th>Isolation (min.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>DC-6 GHz</td>
<td>1.25 : 1</td>
<td>0.2 dB</td>
<td>70 dB</td>
</tr>
<tr>
<td>6-12 GHz</td>
<td>1.40 : 1</td>
<td>0.4 dB</td>
<td>60 dB</td>
</tr>
<tr>
<td>12-18 GHz</td>
<td>1.70 : 1</td>
<td>0.5 dB</td>
<td>60 dB</td>
</tr>
</tbody>
</table>

For more technical information, please contact us by:
Tel: +36-29/550-940 | Email: info@equip-test.com | Web: www.equip-test.com
Coaxial Switch

**Features:**

- Low Insertion Loss
- High Isolation
- Frequency Range: DC to 18 GHz

**Description:**

SWT Series units meet MIL-E-5400 Class 1 and 2 different polarized pins are used to switch signal transmittance paths.

**Specification:**

- Actuator Operating Voltage: 24 VDC
- Actuator Operating Current: 180 mA max. @ 24V and 20 ºC
- Switching Time: 20 milliseconds
- Operating Temperature Range: -25 ºC to +65 ºC

<table>
<thead>
<tr>
<th>Frequency Range</th>
<th>V.S.W.R. (max.)</th>
<th>Insertion Loss (max.)</th>
<th>Isolation (min.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>DC-6 GHz</td>
<td>1.25 : 1</td>
<td>0.2 dB</td>
<td>70 dB</td>
</tr>
<tr>
<td>6-12 GHz</td>
<td>1.40 : 1</td>
<td>0.4 dB</td>
<td>60 dB</td>
</tr>
<tr>
<td>12-18 GHz</td>
<td>1.50 : 1</td>
<td>0.5 dB</td>
<td>60 dB</td>
</tr>
</tbody>
</table>

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N (M) Terminator N Type

- TER-N00M5018S01
- N Type
- Frequency Range: DC - 6 GHz
- Impedance: 50 Ω
- Power Rating: 1 W

SMA (M) Terminator SMA Type

- TER-SMAM5018T001
- SMA Type
- Frequency Range: DC - 18 GHz
- Impedance: 50 Ω
- Power Rating: 1 W

F (M) Terminator F Type

- TER-F00M75300E01
- F Type
- Frequency Range: DC - 2 GHz
- Impedance: 75 Ω
- Power Rating: 0.5 W

For more technical information, please contact us by:
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# Tools – Torque Wrench

**Features:**

![Torque Wrench Image](image_url)

**P/N:** WRENCH-08100155T01

<table>
<thead>
<tr>
<th>Dimension</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions</td>
<td>155 mm x Φ15mm</td>
</tr>
<tr>
<td>Opening Diameter (mm)</td>
<td>Φ8.2 ± 0.1</td>
</tr>
<tr>
<td>Torque Accuracy (N*m)</td>
<td>1 ± 0.1</td>
</tr>
<tr>
<td>Weight</td>
<td>0.2 kg</td>
</tr>
<tr>
<td>Handle Color</td>
<td>Pink Color</td>
</tr>
</tbody>
</table>

For more technical information, please contact us by:

Tel: +36-29/550-940  | Email: info@equip-test.com  | Web: www.equip-test.com
Antenna 2.40 / 5.80GHz

Specification:

- Frequency Range : 2.40-2.50 GHz / 4.90-5.85 GHz
- V.S.W.R. ≤ 2.5
- Peak gain : 3.0 dB
- Impedance : 50 Ω
- Polarization : Vertical
- Operating temperature range : - 30 ºC to + 70 ºC

Outline Drawing:
RF Shielding Room

- **International Standard Conformance**
  All types of chambers are conformed with ANSI, MIL, IEC & EN.

- **Calibration & Acceptance Service**
  Equip-test is able to provide calibration, maintenance, and quality assurance service.

- **Flexible Chamber Sizes**
  Chamber sizes are all customized upon further requests.

- **Qualified Construction Ability.**
  Strength1. Experienced & Well-Trained construction team.
  Strength2. Professional Manufacture Ability.
  Strength3. Closed and tight cooperation with reputable absorber suppliers.

For more technical information, please contact us by:
Tel: +36-29/550-940 | Email: info@equip-test.com | Web: www.equip-test.com
RF Shielding Room Structure

- Standard size isolation modules, designed to meet frequencies between 10MHZ to 18GHZ.

- 2 mm Galvanized steel structures, with 20 um Plating thickness on each steel, to ensure the steel not being affected by environment or temperature.

- Depth of each piece of steel is 50 mm. In order to ensure isolation, there is a connection point every 100 mm to connect the steel plates.

- Steel plates are connected with metal braid connection. Regulated with M10 screws to ensure the screws do not slip.

- Shielding chamber’s main body structural support, can be assisted by standard steel when necessary.

For more technical information, please contact us by:

Tel: +36-29/550-940  Email: info@equip-test.com  Web: www.equip-test.com
Shielding Room Specifications

<table>
<thead>
<tr>
<th>Outer Size Measurement (WXDXH)</th>
<th>MIN: 1800 X 1800 X 1800 mm</th>
<th>Shielding Door Size Measurement (WXH)</th>
<th>1000 X 2000 mm</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>MAX: 2400 X 2400 X 2400 mm</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Inner Size Measurement (WXDXH)</th>
<th>MIN: 1700 X 1700 X 1670 mm</th>
<th>Shielding Door Size Measurement (WXH)</th>
<th>MAX: 2300 X 2300 X 2270 mm</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>MAX: 2300 X 2300 X 2270 mm</td>
<td>Switch Modes</td>
<td>Manual/Pneumatic/Electric</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Main Materials</th>
<th>Galvanized Steel</th>
<th>Power Supply</th>
<th>30 A</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Surface Treatments</th>
<th>Ivory White</th>
<th>Vents Size Measurement (LXWXH)</th>
<th>300 X 300 X 50 mm</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Shielding Effectiveness</th>
<th>&gt;100 dB</th>
<th>Inner Lighting</th>
<th>Non-Interference Luminaries</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Signal Panel</th>
<th>SMA/BNC/N/Waveguide</th>
<th>Inner Power Cord Distribution</th>
<th>According to electrical regulation</th>
</tr>
</thead>
</table>

For more technical information, please contact us by:
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Shielding Doors

Shielding doors are generally located by the side of walls. They are constructed with metal frame which connects door leaf & spring to ensure its shielding effectiveness. The mechanical connection is consisted of the spring connectors on the door frame and the single/double knives door structures. Surface on the doors and its switch handles are all subjected to high temperature paint treatment. Easy to maintain and residual-free of hand prints.

RF sealing components, between door and door frame are easy to repair and maintain. Finger-Shaped metal shrapnel is replaceable by manual tools.

Shielding Effectiveness: 30 MHz - 18 GHz → 100 dB

<table>
<thead>
<tr>
<th>Door Size</th>
<th>Door Module Size</th>
<th>Pneumatic Control</th>
<th>Handle</th>
</tr>
</thead>
<tbody>
<tr>
<td>900 x 2000 mm</td>
<td>1200 x 2500 mm</td>
<td>V</td>
<td>V</td>
</tr>
<tr>
<td>1000 x 2000 mm</td>
<td>1350 x 2500 mm</td>
<td>V</td>
<td>V</td>
</tr>
<tr>
<td>1200 x 2000 mm</td>
<td>1500 x 2500 mm</td>
<td>V</td>
<td>V</td>
</tr>
</tbody>
</table>
Shielding Room Power Filters

Power Filter is used to ensure the shielding effect of the power cord, entering & out of shielding room. All lines entering laboratory will need to be RF filtered.

<table>
<thead>
<tr>
<th>Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>Brand</td>
</tr>
<tr>
<td>Spec</td>
</tr>
<tr>
<td>Frequency Range</td>
</tr>
<tr>
<td>Standard Specification</td>
</tr>
<tr>
<td>Voltage</td>
</tr>
<tr>
<td>Frequency</td>
</tr>
</tbody>
</table>

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Cellular Shielding Vent

Shielding chamber environment must have good ventilation system. Such as gas can flow pass through the cellular structure vent at high speed. Internal cellular structure is composed of crimped metal waveguide matrix.

Shielding effectiveness relies mainly on the attenuation characteristics of waveguide. This mainly depends on the size, length, and quantity of the aperture of the waveguide. In order to have good ventilation in the shielding room, it is placed on top of the ceiling.

The most suitable way to connect is near the air conditioning system or to connect with air-conditioning ducts.

<table>
<thead>
<tr>
<th>Specifications</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Brand</strong></td>
<td></td>
</tr>
<tr>
<td>Spec</td>
<td>300 x 300 mm</td>
</tr>
<tr>
<td>Diameter</td>
<td>4 mm</td>
</tr>
<tr>
<td>Frequency Range</td>
<td>30 MHz-18 GHz ≥ 100 dB</td>
</tr>
<tr>
<td>In-Take Air volume</td>
<td>Reach 80%</td>
</tr>
</tbody>
</table>
Alloy Steel Raised Floor

Alloy steel floor is consisted of upper & lower steel plates. After the lower plate is formed by stretching & stamping, it is spot welded to combine with the upper plate. The steel floor, with beams and foundation constitute the raised floor structure.

<table>
<thead>
<tr>
<th>Specifications</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Size</td>
<td>600 x 600 mm</td>
</tr>
<tr>
<td>Total Weight</td>
<td>300 kg</td>
</tr>
<tr>
<td>Surface Material</td>
<td>PVC Brick</td>
</tr>
</tbody>
</table>

For more technical information, please contact us by:
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Interior Views of Finished Chamber

- **Power Supply**
- **Power Slot**
- **Air-Intake Vents**
- **Signal Filter**

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# Shielding Room Manufacturing Requirement

<table>
<thead>
<tr>
<th>Content</th>
<th>Specification Template</th>
<th>Requirement Confirmation</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Interior Size</strong></td>
<td>Customization Standard: 2 m x 2 m or 3 m x 2 m need to confirm equipment allocation &amp; personnel moving directions.</td>
<td></td>
</tr>
<tr>
<td><strong>Exterior Size</strong></td>
<td>Customization, Standard: 2 m x 2 m or 3 m x 2 m</td>
<td></td>
</tr>
<tr>
<td><strong>Thickness of Ceiling</strong></td>
<td>Approximately 7-10 cm</td>
<td></td>
</tr>
<tr>
<td><strong>Thickness of Floor</strong></td>
<td>Approximately 5 cm</td>
<td></td>
</tr>
<tr>
<td><strong>Thickness of Wall</strong></td>
<td>Approximately 10 cm</td>
<td></td>
</tr>
<tr>
<td><strong>Luminaries</strong></td>
<td>Customization, 2x2 m (2 sets); 3x2 m (4 sets)</td>
<td></td>
</tr>
<tr>
<td><strong>Ventilation Duct</strong></td>
<td>Normally 2 sets, In/Out, Fans not included, duct diameter required.</td>
<td></td>
</tr>
<tr>
<td><strong>Frequency/Shielding Effectiveness</strong></td>
<td>Two different specs available: 1. Shielding Effectiveness:100 dB, 30 MHz-18 GH 2. Shielding Effectiveness:75 dB, 30 MHz-1 GHz</td>
<td></td>
</tr>
<tr>
<td><strong>Material</strong></td>
<td>Galvanized Steel:2mm thick(Shielding Effect 100 dB) ; 0.6 mm thick (Shielding Effect 75 dB)</td>
<td></td>
</tr>
<tr>
<td><strong>Size of Doors</strong></td>
<td>Need to consider equipment size &amp; moving line; Normally width is 140 cm.</td>
<td></td>
</tr>
<tr>
<td><strong>Absorber</strong></td>
<td>Standard Spec does not include absorber; specs &amp; quotation of the absorber are subjected to further discussion.</td>
<td></td>
</tr>
<tr>
<td><strong>Voltage</strong></td>
<td>AC</td>
<td></td>
</tr>
<tr>
<td><strong>Waveguide</strong></td>
<td>Qty: 1 set; Used in windpipe(Non metallic)</td>
<td></td>
</tr>
<tr>
<td><strong>Filter interfaces and Qty</strong></td>
<td>USB 、 RJ45 、 SMA....etc</td>
<td></td>
</tr>
<tr>
<td><strong>Specification of Filters</strong></td>
<td>Cutoff Frequency, Electrical Specifications</td>
<td></td>
</tr>
<tr>
<td><strong>Lead-time and QTY</strong></td>
<td>L/T at least 30 days; subject to change depend on overall size &amp; qty</td>
<td></td>
</tr>
</tbody>
</table>

For more technical information, please contact us by:
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Shielding Room Order Procedures

Order inquiry from customers → Our company provides Manufacturing Requirement Chart for customers to fill up → Manufacturing chart filled and confirmed

Beginning of Construction ← Manufacturing site measurement & assessment ← Provide Quotation

Shielding chamber assembly → Completion of Assembly, calibration & acceptance service → Project Completion

For more technical information, please contact us by:
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RF Module and Device Automatic Solution

RF Test Automation Solution

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