Arither Suspended Stripline Low Pass Filter Data Sheet

Suspended Stripline Filter is a superior transmission line system that can be used to implement various forms of filters. Compared to micro strip lines and co-planar wave guides, Suspended Stripline Filter has a lower current density in the metal layer. The layer has a smaller electric field strength, thereby effectively reducing losses. Because Suspended Stripline Filter has the advantages of low loss, excellent temperature performance, high precision control of process fabrication, good batch consistency, etc., it is very suitable for broadband microwave component design, and the filter designed by the suspension strip line has multiple octaves. Ultra-wide-band, low loss and very high regularity.

Arither Suspended Stripline Low Pass Filter Features:
- Product operating frequency covers 1-14GHz
- Stable performance and high reliability
- Low loss and high Q value
- High out-of-band rejection, and excellent squareness
- Wide pass band and small size
- Very good adjust-ability, compared to ordinary micro strip band pass filters
- Operating temperature range: -55~+85°C

Arither Suspended Stripline Low Pass Filter Applications:
- Communication system
- Radar system
- Guidance

Arither Suspended Stripline Low Pass Filter Specification:

<table>
<thead>
<tr>
<th>Product No.</th>
<th>Freq Range(GHz)</th>
<th>Insertion Loss(dB)</th>
<th>VSWR (Max)</th>
<th>Rejection (GHz/dB)</th>
<th>Power (W)</th>
<th>Port</th>
<th>Dimension L x W x H(mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ASSLPF2000S1-L</td>
<td>DC-1</td>
<td>1.0</td>
<td>1.8</td>
<td>12-3≥50</td>
<td>15</td>
<td>SMA</td>
<td>88 x 56 x 12</td>
</tr>
</tbody>
</table>
Arither Suspended Stripline Low Pass Filter Instructions:

- Due to the wide variety of Suspended Stripline Low Pass Filter and different user requirements, we need to design and produce separately for each user. Therefore, the production cycle is 1~2 weeks. If there are special requirements for the shape structure, we can provide the shape according to the user. The dimensions are structurally processed, but the production cycle is slightly longer.
- If you have other special requirements for parameters, please indicate.

Arither Suspended Stripline Low Pass Filter Limitation of the Index:

<table>
<thead>
<tr>
<th>No.</th>
<th>Item</th>
<th>Index</th>
<th>notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Working temperature</td>
<td>-55°C to -85°C</td>
<td>The power is the parameter of the general product design, and it can also be evaluated with the user; It can be customized products according to user needs.</td>
</tr>
<tr>
<td>2</td>
<td>Storage temperature</td>
<td>-60°C to -90°C</td>
<td></td>
</tr>
</tbody>
</table>

Precautions

- **Storage**: The product must be stored in a dry, protected environment (e.g. nitrogen cabinet or drying cabinet).
- **Routine operation**: In a clean environment, the product must be equipped with a dust-free finger sleeve or a precision tweezers to avoid scratching the substrate and scratching the microstrip line during operation.
- **Cleaning treatment**: The product can be washed in absolute ethanol, or the surface of the product can be gently wiped with an anhydrous ethanol cotton ball. It is strictly forbidden to clean in the ultrasonic cleaner.

To customize your **Suspended Stripline Low Pass Filter**, please feel free to contact Arither at: +86-28-8411-1861, or sales@arither.com.