**Surface Mount 719.0MHz SAW Filter**

**AFS20A05-719.00-T3**

**Features:**
- 2.0 x 1.6 x 0.75 mm low profile SMT package
- Low Insertion loss
- Excellent selectivity with high out-of-band rejection

**Applications:**
- Wireless Communication
- Remote Control
- Cellular Phones

**Electrical Specifications:**

**Maximum Ratings**

<table>
<thead>
<tr>
<th>Item</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Input Power Level</td>
<td>+10 dBm max.</td>
</tr>
<tr>
<td>DC Permissive Voltage</td>
<td>3V DC max.</td>
</tr>
<tr>
<td>Operating Temperature Range</td>
<td>-30°C to +85°C</td>
</tr>
<tr>
<td>Storage Temperature Range</td>
<td>-40°C to +85°C</td>
</tr>
</tbody>
</table>

**Parameters**

<table>
<thead>
<tr>
<th>Parameters</th>
<th>Minimum</th>
<th>Typical</th>
<th>Maximum</th>
<th>Units</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Center Frequency (f_c)</td>
<td>719</td>
<td></td>
<td></td>
<td>MHz</td>
<td></td>
</tr>
<tr>
<td>Insertion Loss (IL)</td>
<td>3.00</td>
<td>3.20</td>
<td></td>
<td>dB</td>
<td>716.5 ~ 721.5MHz</td>
</tr>
<tr>
<td>Effective Bandwidth</td>
<td>5.00</td>
<td></td>
<td></td>
<td>MHz</td>
<td></td>
</tr>
<tr>
<td>Amplitude Ripple</td>
<td>0.90</td>
<td>2.20</td>
<td></td>
<td>dB</td>
<td>716.5 ~ 721.5MHz</td>
</tr>
<tr>
<td>Group Delay Variation</td>
<td>38</td>
<td>95</td>
<td></td>
<td>ns</td>
<td>716.5 ~ 721.5MHz</td>
</tr>
<tr>
<td>Worst-Case Input / Output Return Loss</td>
<td>5</td>
<td>8</td>
<td>95</td>
<td>dB</td>
<td>716.5 ~ 721.5MHz</td>
</tr>
<tr>
<td>Stop-band Attenuation (Referenced to 0.0 dB)</td>
<td>40</td>
<td>49</td>
<td>35</td>
<td>44</td>
<td>30</td>
</tr>
<tr>
<td>Source Impedance (Z_s)</td>
<td>50</td>
<td></td>
<td></td>
<td>Ω</td>
<td>See note # 1</td>
</tr>
<tr>
<td>Load Impedance (Z_L)</td>
<td>50</td>
<td></td>
<td></td>
<td>Ω</td>
<td>See note # 1</td>
</tr>
</tbody>
</table>

**Notes #1:** No matching network required for operation into 50Ω's
Surface Mount 719.0MHz SAW Filter
AFS20A05-719.00-T3

OUTLINE DIMENSIONS:

Recommended Land Pattern:

FREQUENCY CHARACTERISTICS:

Filter Frequency Response (Narrowband)

Filter Frequency Response (Wideband)
FREQUENCY CHARACTERISTIC:

Input Return Loss (S11)  

Output Return Loss (S22)

Note #2: Detail S-parameter information (.s2p file) available upon request

REFLOW PROFILE:

Pb-Free RFlow Profile

Visiting www.abracon.com for Terms and Conditions of Sale

ABRACON IS  
ISO 9001:2008  
CERTIFIED

2 Faraday, Suite# B | Irvine | CA 92618 Revised: 03.10.15  
Ph. 949.546.8000 | Fax. 949.546.8001  
Visit www.abracon.com for Terms and Conditions of Sale

RoHS/RoHS II Compliant

2.0 x 1.6 x 0.75 mm
Surface Mount 719.0MHz SAW Filter

AFS20A05-719.00-T3

PACKAGING: 3,000 units/reel

Tape Dimensions

Reel Dimensions

Dimensions: mm

ATTENTION: Abracon Corporation’s products are COTS – Commercial-Off-The-Shelf products; suitable for Commercial, Industrial and, where designated, Automotive Applications. Abracon’s products are not specifically designed for Military, Aviation, Aerospace, Life-dependant Medical applications or any application requiring high reliability where component failure could result in loss of life and/or property. For applications requiring high reliability and/or presenting an extreme operating environment, written consent and authorization from Abracon Corporation is required. Please contact Abracon Corporation for more information.