Excellent Integrated System Limited

Stocking Distributor

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Abracon Corporation
AFS20A20-1227.60-T3

For any questions, you can email us directly:
sales@integrated-circuit.com
Surface Mount 1227.60MHz SAW Filter

AFS20A20-1227.60-T3

Moisture Sensitivity Level (MSL) – This product is Hermetically Sealed and not Moisture Sensitive - MSL = N/A: Not Applicable

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>
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</thead>
<tbody>
<tr>
<td>Input Power Level</td>
<td>+20 dBm max.</td>
</tr>
<tr>
<td>DC Permissive Voltage</td>
<td>3V DC max.</td>
</tr>
<tr>
<td>Operating Temperature Range</td>
<td>-55°C to + 105°C</td>
</tr>
<tr>
<td>Storage Temperature Range</td>
<td>-55°C to + 105°C</td>
</tr>
</tbody>
</table>

<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>1227.60</td>
<td></td>
<td></td>
<td>MHz</td>
<td></td>
</tr>
<tr>
<td>Insertion Loss (IL)</td>
<td>2.60</td>
<td>3.00</td>
<td></td>
<td>dB</td>
<td></td>
</tr>
<tr>
<td>3dB Bandwidth</td>
<td>20</td>
<td>42</td>
<td></td>
<td>MHz</td>
<td>1217.60 ~ 1237.6MHz</td>
</tr>
<tr>
<td>Amplitude Ripple</td>
<td>0.80</td>
<td>2.00</td>
<td></td>
<td>dB</td>
<td>1217.60 ~ 1237.6MHz</td>
</tr>
<tr>
<td>Group Delay</td>
<td>12</td>
<td>26</td>
<td>ns</td>
<td></td>
<td>1217.60 ~ 1237.6MHz</td>
</tr>
<tr>
<td>Group Delay Ripple</td>
<td>23</td>
<td>70</td>
<td>ns</td>
<td></td>
<td>1217.60 ~ 1237.6MHz</td>
</tr>
<tr>
<td>Worst-Case Input / Output Return Loss</td>
<td>8.0</td>
<td>10.5</td>
<td></td>
<td>dB</td>
<td>1217.60 ~ 1237.6MHz</td>
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<tr>
<td>Stop-band Attenuation (Referenced to 0.0 dB)</td>
<td>15 20</td>
<td></td>
<td></td>
<td>dB</td>
<td>300MHz ~ 1152MHz</td>
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<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>

Note #1: No matching network required for operation into 50Ω's

TEST CIRCUIT:
Surface Mount 1227.60MHz SAW Filter

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OUTLINE DIMENSION:

Recommended Land Pattern:

FILTER FREQUENCY RESPONSE (NARROWBAND)

RoHS/RoHS II compliant

Recommended Land Pattern:

FILTER FREQUENCY RESPONSE (NARROWBAND)
Surface Mount 1227.60MHz SAW Filter
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FILTER FREQUENCY RESPONSE (WITH-IN-PASSBAND)

FILTER FREQUENCY RESPONSE (WIDEBAND)
Surface Mount 1227.60MHz SAW Filter

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RoHS/RoHS II compliant

2.0 x 1.6 x 0.75 mm

REFLOW PROFILE:

TAPE & REEL:

Packaging: 3,000 Units Per Reel

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.