USB260A - PRELIMINARY
2575-2635 MHz USB Series TDD Bandpass Filter

Features
- Subset of Band 41 for China Mobile
- Low Loss with High Rejection
- Low ripple
- Universal footprint across family for all TDD bands

Applications
- Wireless Infrastructure applications
- High-performance carrier-grade TDD basestations for up to 5.0W at the antenna port.

Description
Surface mount ceramic bandpass filter supports a universal footprint across all TDD frequency bands enabling the use of a common system PCB. Provides superior rejection, insertion loss, reliability, as well as both peak and average power handling compared to other bandpass filter technologies.

Electrical Specifications

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Frequency (MHz)</th>
<th>Typical at 25°C</th>
<th>Spec. at 25°C</th>
<th>Spec. over -40°C to +85°C</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nominal Impedance</td>
<td>-</td>
<td>50 ohms</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Average Input Power</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>8.0 Watt max</td>
</tr>
<tr>
<td>Peak Input Power</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>80 Watt max</td>
</tr>
</tbody>
</table>

Input-Output Response

- **Passband Insertion Loss (5 MHz avg)**: 1.1 dB, 1.3 dB max, 1.3 dB max
- **Passband Ripple**: 0.3 dB, 0.5 dB max, 0.5 dB max
- **Passband Return Loss**: 17 dB, 14 dB min, 14 dB min
- **Group Delay Variation**: 5ns (14 – 9)

- **Attenuation**: 47 dB, 43 dB min, 43 dB min
- **2400-2483**: 56 dB, 50 dB min, 50 dB min
- **2483-2500**: 41 dB, 40 dB min, 40 dB min
- **2700-2900**: 41 dB, 40 dB min, 40 dB min

Note: CTS tests each unit to the critical specifications above. Subsequent audits may deviate due to repeatability among different test systems which shall not exceed these allowances.

Specification Allowance
- Insertion Loss: 0.1 dB
- Return Loss: 1.0 dB
- Attenuation: 1.0 dB
NOTE: The width of 9.50mm is necessary to support frequencies as low as 1885MHz for Band 39. If only higher frequency TDD bands are supported, then a smaller space can be allocated on the layout.