CMB256A - PRELIMINARY
2545-2575 MHz Bandpass Filter

Features
- Low loss with high rejection and low ripple
- Superior power handling and reliability
- Part of the CMB family of Metro-cell TDD Bandpass Filters
- Choice for either PCB mounting, or with various connectors (SMP, SMP, SMP-Max, etc.) and mounting brackets

Applications
- Wireless Infrastructure applications
- High-performance carrier-grade TDD basestations up to 20W at the antenna port
- Wide-band DAS, Repeaters, or small-cells including support for WiFi co-location

Description
Ceramic waveguide bandpass filter based on ClearPlex technology supports TDD frequency bands. Provides superior rejection, insertion loss, reliability, as well as both peak and average power handling compared to other ceramic technologies. Performance is comparable to compact Air Cavity in dramatically smaller size.

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>32 Watt max</td>
</tr>
<tr>
<td>Peak Input Power</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>320 Watt max</td>
</tr>
</tbody>
</table>

Input-Output Response

- Passband Insertion Loss (10 MHz avg) 2545-2575 2.2 dB max
- Passband Ripple 2545-2575 1.1 dB max
- Group Delay Variation (min-max) 2545-2575 50 ns max
- Passband Return Loss 2545-2575 16 dB min
- Attenuation:
  - 1-2485 66 dB min
  - 2485-2505 55 dB min
  - 2505-2535 42 dB min
  - 2582-2595 20 dB min
  - 2595-2645 42 dB min
  - 2645-3400 20 dB min
  - 3400-5850 20 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

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www.ctscp.com
Mechanical Drawing
Size: 45 mm (L) x 40 mm (W) x 20 mm (H)
Weight: 80-90g

PCB Layout

Packaging and Marking

Electrical Response

Need updated dwg with dimensions and pin locations

Need updated sim for 0.2dB higher IL