CMB260A - PRELIMINARY
2575-2635 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 with pins, or with various connectors (SMA, 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 (20 MHz avg) 2575 - 2635 0.9 dB 1.1 dB max
- Passband Ripple 2575 - 2635 0.5 dB max
- Group Delay Variation (min-max) 2575 - 2635 20 ns max
- Passband Return Loss 2575 - 2635 16 dB min
- Attenuation:
  - 1 - 1995 85 dB min
  - 1995 - 2483 60 dB min
  - 2483 - 2500 55 dB min
  - 2500 - 2555 25 dB min
  - 2555 - 2565 10 dB min
  - 2565 - 2655 10 dB min
  - 2655 - 2700 25 dB min
  - 2700 - 2900 50 dB min
  - 2900 - 3400 30 dB min
  - 3400 - 5850 Can only spec if used with LPF

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

Need updated dwg with dimensions and pin locations

PCB Layout

Packaging and Marking

Electrical Response