Same Band Combiner

AASBC-141
1800 MHz | Same Band Combiner | AISG and DC Transparency

- 1800 MHz, same band combiner
- AISG and DC transparency
- Helps to minimize site acquisition issues
- Reduces the cost of network expansion

### RF Characteristics

<table>
<thead>
<tr>
<th>Path</th>
<th>Low</th>
<th>High</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Uplink (Rx) Path</strong></td>
<td>Frequency Band 1725-1740 MHz</td>
<td>1745-1755 MHz</td>
</tr>
<tr>
<td><strong>Insertion Loss</strong></td>
<td>&lt; 0.8 dB</td>
<td>&lt; 0.8 dB</td>
</tr>
<tr>
<td><strong>Downlink (Tx) Path</strong></td>
<td>Frequency Band 1820-1835 MHz</td>
<td>1840-1850 MHz</td>
</tr>
<tr>
<td><strong>Insertion Loss</strong></td>
<td>&lt; 1.0 dB</td>
<td>&lt; 1.0 dB</td>
</tr>
<tr>
<td><strong>Insertion Loss - Occupied Band Width</strong></td>
<td>&lt; 0.8 dB (+25°C, 1820.5-1835.5 MHz)</td>
<td>&lt; 0.9 dB (+25°C, 1840.5-1849.5 MHz)</td>
</tr>
</tbody>
</table>

| **Continuous Average Power** | Average (53 dBm) 200 W | Peak (57 dBm) 500 W |
| **Intermodulation** | (2x43 dBm TX carrier, BTS Port) -160 dBc |

**All Bands**

- **Return Loss** 18 dB
- **Isolation Between Node B Ports**
  - at Rx Frequency 20 dB
  - at Tx Frequency 35 dB

### Power Supply

- **AISG Signal Attenuation at 2.176 MHz** < 1 dB
- **Voltage Drop (maximum at 10-30 VDC)** 1 V
- **Supply Voltage Handling** 0-32 VDC
- **Continuous Current Handling** 5A, 0-32 VDC
- **AISG / DC Transparency Between Ports** High to Common

### Environmental Characteristics

- **Operating Temperature Range** -20° to +65° C (-4° to +149° F)
- **Operation** ETS 300 019-1-4 Class 4.1E
- **Storage** ETS 300 019-1-1 Class 1.2
- **Ingress Protection** IP67
- **EMC** EN 301 489-8
- **Safety Standards** EN 60950
- **MTBF** 1.5 M hours
- **Lightning Protection** 3 kA 10/350 μs, 10 kA 8/20 μs

Quoted performance parameters are provided to offer typical, peak or range values only and may vary as a result of normal testing, manufacturing and operational conditions. Extreme operational conditions and/or stress on structural supports is beyond our control. Such conditions may result in damage to this product. Improvements to products may be made without notice.
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