Multi-Channel SwiftBroadband Satcom Intermediate Gain Antenna System

An intermediate gain, electronically steerable, phased array antenna providing hemispherical coverage in a small, low-weight package.

- Supports Inmarsat SwiftBroadband satellite communications services.
- Supports Inmarsat Classic Aero-I satellite communications services.
- Exceeds Inmarsat performance specifications.
- Multi-channel operation.
- Small size ... low weight ... low drag.
- No adaptor plate required.
- FAA and Canadian TSO-C132.
- Top-mounted antenna with diplexer/LNA.
- No coverage blind spots (keyholes).
- Design based on the same proprietary technology and architecture used in the industry-leading CMA-2102 High Gain Antenna.
- Top-mount design virtually eliminates multipath interference.
- Conforms to ARINC 781 and Inmarsat SDM.
- Integral ARINC 781 beam steering unit.
- One antenna part number for all airframe types.
- Continuous Built-In-Test (BIT).
- Simple upgrade for existing CMA-2200 users.
CMA-2200SB Satcom Intermediate Gain Antenna System

FREQUENCY
Receive 1525.0 MHz to 1559.0 MHz
Transmit 1625.0 MHz to 1660.0 MHz

SERVICE COVERAGE
Seamless coverage, independent of aircraft direction over more than 95% of the specified Inmarsat hemisphere. No keyholes. Conforms to ARINC 781 interface and footprint.

GAIN
Typical 16.5 dBiC (minimum 6.0 dBiC) over 90% of specified coverage region.

POLARIZATION PERFORMANCE
Right hand circular. Axial ratio is less than 6.0 dB for all steering angles and all frequencies of operation within coverage region.

MULTIPATH REJECTION
Exceeds 10 dB rejection at 5 degrees elevation.

BEAM SWITCHING
50 microseconds maximum.

SATELLITE DISCRIMINATION
Passive In-Channel
Passive Intermodulation (PIM) is available.

GAIN
16 dB typical. Exceeds 7 dB over coverage region.

POLARIZATION PERFORMANCE
Typical 8.5 dBiC (minimum 6.0 dBiC) over 90% of specified Inmarsat hemisphere. No keyholes. Conforms to ARINC 781 interface and footprint.

MULTIPATH REJECTION
Exceeds 10 dB rejection at 5 degrees elevation.

BEAM SWITCHING
50 microseconds maximum.

PASSIVE INTERMODULATION (PIM)
Exceeds Inmarsat requirements for multi-channel SwiftBroadband operation.

UNIT CHARACTERISTICS

<table>
<thead>
<tr>
<th>Intermediate Gain Antenna</th>
<th>Diplexer / LNA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Length</td>
<td></td>
</tr>
<tr>
<td>29.9&quot; (75.9 cm)</td>
<td>11.05&quot; (28.1 cm)</td>
</tr>
<tr>
<td>Width</td>
<td></td>
</tr>
<tr>
<td>4.3&quot; (10.9 cm)</td>
<td>7.76&quot; (19.7 cm)</td>
</tr>
<tr>
<td>Height</td>
<td></td>
</tr>
<tr>
<td>3.8&quot; (9.7 cm)</td>
<td>1.97&quot; (5 cm)</td>
</tr>
<tr>
<td>Weight</td>
<td></td>
</tr>
<tr>
<td>6.2 lb (2.8 kg)</td>
<td>7.5 lb (3.4 kg)</td>
</tr>
<tr>
<td>Power Consumption</td>
<td></td>
</tr>
<tr>
<td>12 Watts maximum</td>
<td>12 Watts maximum</td>
</tr>
</tbody>
</table>

For further information, please send your request to: cmc.sales@cmcelectronics.ca

For information purposes only. To accommodate product improvements, specifications are subject to change without notice.

www.cmcelectronics.ca

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SAT-2200SB_01-207