Designed specifically for Conducted EMC testing, this mismatch tolerant Class A amplifier is ideally suited to provide power into Bulk Current Injection (BCI) Probes, injection clamps and CDN for IEC61000-4-6 conducted susceptibility testing up to and beyond the normal 10 V emf test level.

The Class A design ensures a high reliability, low distortion linear performance across the frequency range. This design also ensures that the amplifier will continue to operate at full power even when presented with an open or short circuit at its output.

The unit is powered from a switched mode power supply for high efficiency, high power factor and wide voltage range operation. The unit is air-cooled with integral fans, and is protected against faulty cooling by excess temperature sensing. Front panel indicators are provided to indicate over-temperature.
### CBA 230M-080
150 KHZ TO 230 MHZ 80 WATT CLASS A BROADBAND AMPLIFIER

<table>
<thead>
<tr>
<th>Key RF Parameters</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Frequency range (instantaneous)</td>
<td>0.15 to 230 MHz</td>
</tr>
<tr>
<td>Rated output power</td>
<td>80 W minimum (90 W typical)</td>
</tr>
<tr>
<td>Output power at 1 dB gain compression</td>
<td>70 W minimum (80 W typical)</td>
</tr>
<tr>
<td>Harmonics at 70 W output power</td>
<td>Better than -20 dBc</td>
</tr>
<tr>
<td>Gain</td>
<td>50 dB</td>
</tr>
<tr>
<td>Gain variation with frequency</td>
<td>±2 dB</td>
</tr>
<tr>
<td>Maximum input power (no damage)</td>
<td>+10 dBm</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Impedance / VSWR</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Output VSWR tolerance</td>
<td>Infinite any phase</td>
</tr>
<tr>
<td>Stability</td>
<td>Unconditional</td>
</tr>
<tr>
<td>Output impedance</td>
<td>50 Ω</td>
</tr>
<tr>
<td>Input VSWR</td>
<td>2:1</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Additional RF Data</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Third order intercept point</td>
<td>58 dBm</td>
</tr>
<tr>
<td>RF connector style</td>
<td>Type N female</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Electrical and Interfaces</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>USB interface</td>
<td>Optional</td>
</tr>
<tr>
<td>Safety interlock</td>
<td>BNC female, s / c to mute</td>
</tr>
<tr>
<td>Supply voltage (single phase)</td>
<td>85 to 264 Vac</td>
</tr>
<tr>
<td>Supply frequency range</td>
<td>47 to 63 Hz</td>
</tr>
<tr>
<td>Supply power</td>
<td>&lt;400 VA</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Physical / Environmental</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Case dimensions</td>
<td>19 inch, 3U case, 440 mm deep</td>
</tr>
<tr>
<td>Weight</td>
<td>13 kg</td>
</tr>
<tr>
<td>Operating temperature range</td>
<td>0°C–40°C</td>
</tr>
</tbody>
</table>

Notes:
1. Output VSWR tolerance is specified for excitation within the permitted levels and frequency range.
2. The third order intercept point is a nominal value, as its calculation depends upon the power level at which distortion measurements are made.
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