CBL 6112D
BILOG® ANTENNA 30 MHz to 2 GHz

Three Antennas In One
The CBL 6112D operates over the unprecedented, wide range 30 MHz to 2 GHz. It effectively combines the performance of three standard EMC antennas, the Biconical, the Log Periodic and the Waveguide Horn. Considerable savings in the order of 40 - 50% can be made in expensive test time, plus the added benefit of improved repeatability and reliability by not having to laboriously disconnect and reconnect antennas during testing.

Optimized for Emission Measurements
The CBL 6112D is primarily an emission measuring antenna but can handle CW powers up to 300 watts, making it suitable for most immunity measurements requiring fields up to 10 V/m, or even greater. The CBL 6112D is linearly polarized and exhibits excellent balance.

Technical specifications
- Frequency range: 30 MHz to 2 GHz
- Typical gain: 6 dB (200 MHz to 700 MHz), 8 dB (700 MHz to 2000 MHz)
- Impedance (nominal): 50 Ω
- Maximum continuous power: 300 W (80 - 2000 MHz)
- Connector: N type female
- VSWR: Average 2:1
- Size antenna (L x H x W in mm): approx. 1530 X 1390 X 630 (see drawing)
- Weight: approx. 4.2 kg
- Recommended tripod: BTP 6020A

Typical E field polar patterns for 30 MHz, 1000 MHz and 2000 MHz
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Typical VSWR

Typical drive power for 10 V/m at 3 m, **CW power**, power with 80% modulation
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Typical antenna factor

Typical gain
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**Typical gain ratio**

![Gain Ratio Graph]

**Typical cross polarisation**

![Cross Polarisation Graph]
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**Delivery information**

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<tr>
<th>Part number</th>
<th>Description</th>
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<tr>
<td>346-100</td>
<td>CBL 6112D</td>
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<td>BiLog antenna 30 MHz - 2 GHz</td>
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