

TMC Design Corporation

Wide Band Communications Antennas



- ◆ **3 Octave Bandwidth**
- ◆ **Linear Polarization**
- ◆ **Rugged Construction**

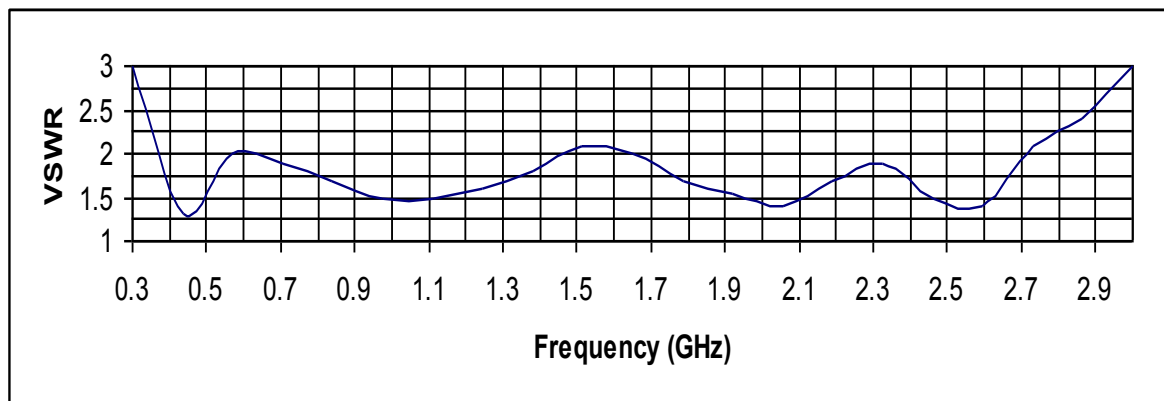
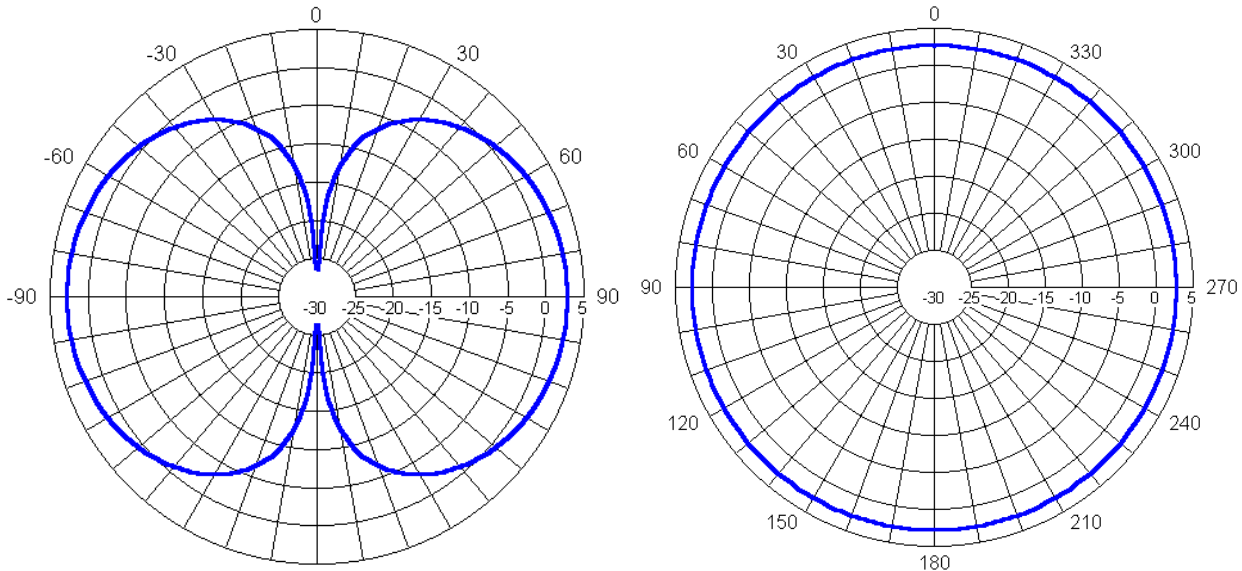
The BC-0300 is a wide band, small biconical transmit and receive antenna contained within a rugged, sealed radome. The result is a commercially priced antenna with the toughness and performance of a military antenna. The antenna is available in a high power version and in a wide variety of mounting options including vehicular magnetic mount.

Specifications

Model:	BC-0300
Frequency:	850-3000 MHz
Gain:	4 dB (center frequency)
Power:	50 watts (CW), 200 watt version available (-HP)
Polarization:	Linear (typically vertical)
VSWR:	2.0:1 typical (in any 1 GHz band of interest) 3.0:1 maximum (otherwise)
Beamwidth:	360 x 85 degrees (center frequency)

TMC Design Corporation
4325 Del Rey Boulevard
Las Cruces, New Mexico 88012-8347
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Tel: 505.382.4600
Fax: 505.523-8588
Email: tmcd@tmcdesign.com
Home: www.tmcdesign.com



Typical wide-band VSWR response and pattern response. The antenna can be optimized to operate at better (less than 1.7:1) VSWR response over any 500 MHz region of the band 800-3000 MHz band.

Mechanical Specifications

Dimensions:	8.1" X 3.5" (20.57 cm X 8.89 cm)
Weight:	1.8 lbs. (.816 kg)
Temperature:	-20° to +150° F (-28.8° to 65.5° C)
Environment:	commercial/industrial (mil-spec available)
Connector:	SMA, BNC, TNC or Type-N available

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