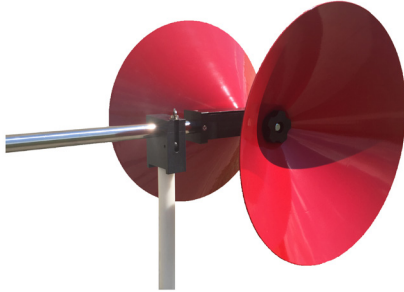


EMC ANTENNAS BROADBAND MINI-BICON ANTENNA



MODEL 3180C

- **Frequency Range:**
 - Cage Elements: 30 MHz to 1 GHz
 - Cone Elements: 30 MHz to 3 GHz
- **Omni-directional Pattern**
- **Ideal for:**
 - Chamber Characterization
 - Broadband Spectrum Monitoring
 - Field Measurement
- **Flexible Mounting**

ETS-Lindgren's Model 3180C Broadband Mini-Bicon Antenna has been designed for optimal performance across the frequency range of 30 MHz to 1 GHz (cage elements) and 30 MHz to 3 GHz (cone elements). The Model 3180C's uniquely designed elements provide an omni-directional pattern, without the beam splitting.

The Model 3180C is ideal for the free space NSA (FSNSA) test for fully anechoic rooms. Its small size allows for harmonic monitoring when testing per the IEC 61000-4-3.

Frequency Range

The Model 3180C covers the traditional frequency range for EMC measurements and covers all of the VHF and UHF bands, making it ideal for spectrum monitoring of FM, TV and some cellular phones. With the small cone elements in place, the 3180C can be used up to 3 GHz.

Standard Configuration

- Antenna Includes:
 - Balun
 - One Pair of Cage Elements
 - One Pair of Cone Elements
- Individually calibrated. Actual factors and a signed Certificate of Calibration Conformance included.
- Manual

Flexible Mounting System

The Model 3180C antenna includes both an EMCO block mount and a rear "stinger" mount for flexible mounting.

Radiation Pattern

The Model 3180C has been designed to have a radiation pattern that is omni-directional. The elements have been optimized to avoid any splitting of the main radiation beam in the elevation cut.

Options

- ETS-Lindgren Offers Several Non-metallic, Non-reflective Tripods

EMC ANTENNAS BROADBAND MINI-BICON ANTENNA

Technical Specifications (Model 3180C with Cage Elements)

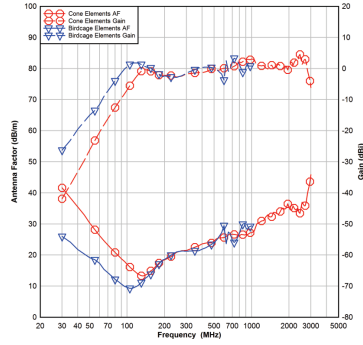
Electrical	
Frequency Minimum	30 MHz
Frequency Maximum	1 GHz
Connectors	Type N (f)
Nominal Impedance	50 Ω
Maximum Continuous Power	250 mW
Pattern Type	Omni-directional
Polarization	Linear
VSWR (Average)	~3:1
Physical	
Length	72.16 cm 28.41 in
Height	40.00 cm 15.75 in
Width	66.34 cm 26.12 in

Technical Specifications (Model 3180C with Cone Elements)

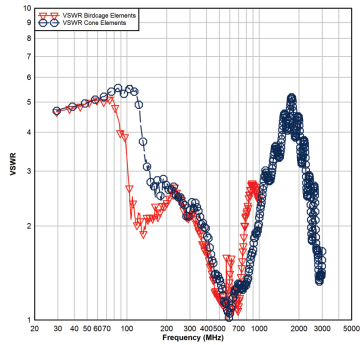
Electrical	
Frequency Minimum	30 MHz
Frequency Maximum	3 GHz
Connectors	Type N (f)
Nominal Impedance	50 Ω
Maximum Continuous Power	250 mW
Pattern Type	Omni-directional
Polarization	Linear
VSWR (Average)	~3:1
Physical	
Length	60.45 cm 23.80 in
Height	16.50 cm 6.50 in
Width	30.07 cm 11.84 in

EMC ANTENNAS BROADBAND MINI-BICON ANTENNA

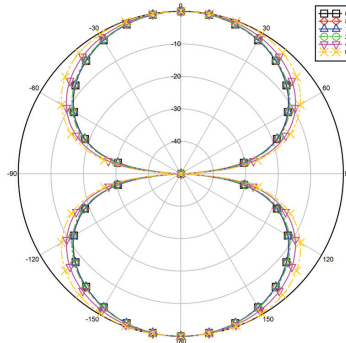
**3180C Mini Bi-Con
Antenna Factor and
Gain Both Elements**



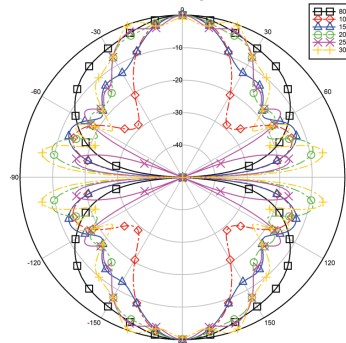
**3180C Mini Bi-Con
VSWR Both Elements**



**3180C Mini
Bi-Con E-Plane
Cone Elements
60 MHz to 600 MHz**

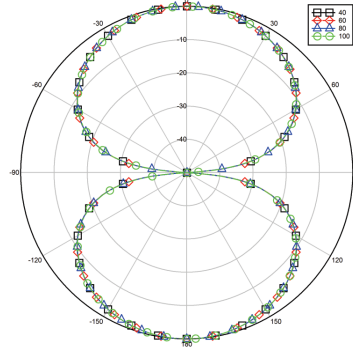


**3180C Mini
Bi-Con E-Plane
Cone Elements
800 MHz to 3000 MHz**

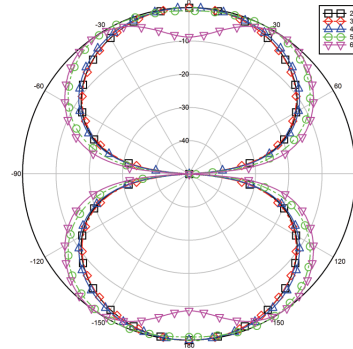


EMC ANTENNAS BROADBAND MINI-BICON ANTENNA

**3180C Mini
Bi-Con E-Plane
Cage Elements
40 MHz to 100 MHz**



**3180C Mini
Bi-Con E-Plane
Cage Elements
200 MHz to 600 MHz**



**3180C Mini
Bi-Con E-Plane
Cage Elements
700 MHz to 1000 MHz**

