

Features:

- IEEE SC 34 Design
- For AAMI & FDA Test Requirements
- Frequency Matched to Wireless Device Frequencies

Model 3125-450 **Model 3125-1750**
440 MHz - 460 MHz 1710 MHz - 1785 MHz

Model 3125-600 **Model 3125-1840**
590 MHz - 610 MHz 1805 MHz - 1880 MHz

Model 3125-870 **Model 3125-1880**
824 MHz - 915 MHz 1850 MHz - 1910 MHz

Model 3125-950 **Model 3125-2450**
935 MHz - 960 MHz 2440 MHz - 2460 MHz

Model 3125-1610 **Model 3125-3000**
1600 MHz - 1620 MHz 2990 MHz - 3010 MHz



ETS-Lindgren Model 3125 Balanced Dipoles

ETS-Lindgren’s Model 3125 Balanced Dipoles for electromagnetic field testing are an isotropic emissions source for immunity testing. These dipoles are designed with frequencies that match the operating frequencies of cellular phones and other wireless devices. In typical use, a chosen dipole is substituted for a wireless device of the same frequency. The substituted dipole then allows the test to be performed with greater repeatability and lower measurement uncertainty. Applications include immunity testing of pacemakers, hearing aids and defibrillators.

The dipoles are tuned half-wave length resonant with a series-parallel coaxial stub balun. Each antenna has

fixed length dipole elements mounted in a Teflon support block. The coaxial balun is terminated into a type “SMA” receptacle.

Features

ETS-Lindgren’s Balanced Dipole Series are manufactured in accordance with a design specified in IEEE SC 34. The dipoles are designed for testing products according to the requirements established by the American Association of Medical Instrumentation (AAMI) and the Federal Drug Administration (FDA). ETS-Lindgren’s Model 3125 Balanced Dipole Series covers a frequency range of 440 MHz to 3 GHz. Each dipole frequency is matched to the frequency used by a wireless device. Requests for dipoles with custom

frequencies can be accommodated. Please contact our Sales Department to discuss your needs.

Standard Configuration

- Antenna assembly
- Manual
- Actual individual calibration factors and signed Certificate of Conformance

Options

- Tripod Mounting Adapter

USA: Tel +1.512.531.6400 Fax +1.512.531.6500	FINLAND: Tel +358.2.8383.300 Fax +358.2.8651.233	UK: Tel +44.(0)1438.730700 Fax +44.(0)1438.730751	FRANCE: Tel +33.1.48.65.34.03 Fax +33.1.48.65.43.69	CHINA: Tel +8610.8275.5086 Fax +8610.8275.5537	JAPAN: Tel +81.3.3813.7100 Fax +81.3.3813.8068	ONLINE: info@ets-lindgren.com www.ets-lindgren.com
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Electrical Specifications

MODEL	FREQUENCY RANGE	VSWR RATIO (AVG)	MAXIMUM CONTINUOUS POWER	IMPEDANCE (NOMINAL)	CONNECTOR
3125-450	440 MHz – 460 MHz	< 1.7:1	1 W	50 Ω	SMA
3125-600	590 MHz – 610 MHz	< 1.7:1	1 W	50 Ω	SMA
3125-870	824 MHz – 915 MHz	< 1.7:1	1 W	50 Ω	SMA
3125-950	935 MHz – 960 MHz	< 1.7:1	1 W	50 Ω	SMA
3125-1610	1600 MHz – 1620 MHz	< 1.7:1	1 W	50 Ω	SMA
3125-1750	1710 MHz – 1785 MHz	< 1.7:1	1 W	50 Ω	SMA
3125-1840	1805 MHz – 1880 MHz	< 1.7:1	1 W	50 Ω	SMA
3125-1880	1850 MHz – 1910 MHz	< 1.7:1	1 W	50 Ω	SMA
3125-2450	2440 MHz – 2460 MHz	< 1.7:1	1 W	50 Ω	SMA
3125-3000	2990 MHz – 3010 MHz	< 1.7:1	1 W	50 Ω	SMA

Physical Specifications

MODEL	WIDTH	DEPTH	HEIGHT
3125-450	31.24 cm 12.3 in	3.3 cm 1.3 in	20.32 cm 8.0 in
3125-600	23.62 cm 9.3 in	3.3 cm 1.3 in	16.51 cm 6.5 in
3125-870	18.2 cm 7.6 in	3.3 cm 1.3 in	12.7 cm 5.0 in
3125-950	14.99 cm 5.91 in	3.3 cm 1.3 in	10.67 cm 4.2 in
3125-1610	8.63 cm 3.4 in	3.3 cm 1.3 in	8.4 cm 3.3 in
3125-1750	8.4 cm 3.31 in	3.3 cm 1.3 in	8.13 cm 3.2 in
3125-1840	8.2 cm 3.23 in	3.3 cm 1.3 in	7.87 cm 3.1 in
3125-1880	8.1 cm 3.19 in	3.3 cm 1.3 in	7.6 cm 3.0 in
3125-2450	5.59 cm 2.2 in	3.3 cm 1.3 in	6.1 cm 2.4 in
3125-3000	4.57 cm 1.8 in	3.3 cm 1.3 in	5.6 cm 2.2 in