



PRODUCT INFORMATION

Component	The Lowdown 630-Meter Amateur Radio Antenna
Part Number	630.PD
Image	
	<p>The support stand and groundplane shown above with the antenna represent future options.</p>
Description	<p>The Lowdown Amateur Radio Antenna offers amateur radio enthusiasts a convenient way to communicate on 630 meters in a confined area. Designed to be centered above a horizontal groundplane, this antenna is amazingly compact and lightweight, making it simple to set up, take down, transport and store. Its inductively center-loaded, base-fed design and capacitive top hat yield excellent efficiency given its compact size.</p>
Specifications	<p>Type: LF base, vertical, whip, omnidirectional.</p>
	<p>Feedpoint Impedance: 20-33 ohms with 25'-10' radius groundplanes, respectively.</p>
	<p>Matching: Transmission line transformer may be used to match impedance for best efficiency.</p>
	<p>Efficiency: up to 2.5 %.</p>

Please be aware that all products we describe here are subject to availability based on our manufacturing capacity and the shipping dates. While we have made every effort to ensure the accuracy of all information, we do not accept liability for any errors or omissions and reserve the right to change these specifications without notice.

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 616.772.2300**



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Component	The Lowdown 630-Meter Amateur Radio Antenna
	Power rating (approx.): 200-watt carrier.
Specs (cont'd)	Frequency coverage: tunable 472 – 479 kHz (630-meter band).
	Operating height AGL: 24' nominal.
	Assembled length: 21.54'.
	Element diameters: base: 1.5"; coil: 3.75"; midtip/tip: 1.5"/1.0".
	Capacitive hat: 120" diameter (maximum).
	Breakdown: 4 pieces plus 6-element capacitive top hat, longest element 94".
	Tuning adjustments: capacitive top hat diameter (spoke length).
	Weight: 18.9 lbs.
	Material: aluminum (anodized), fiberglass reinforced PVC.
	Hardware: stainless steel.
	Feed line connector: ¼" screw stud.
	Mounting type recommended: 1.5" Insulated, block mounts.
	Mounting format: top of mast or pole.
	Mounting structure: 4" 4x4 wood post (typical).
	Wind surface area: 3.15 square feet.
	Wind survivability rating: 140 mph guyed; 100 mph unguyed (48" mount separation).
	Bandwidth: 3 kHz (3:1 SWR); 2 kHz (2:1 SWR).
	Optional Accessories:
	<ul style="list-style-type: none">• THEMATCHBOX Impedance Matching Transformer• Preassembled Groundplanes• Insulator Mounts• Lightning Arrestor & Grounding Enclosure• Guying Kits, Stands/Masts and Coaxial Cable

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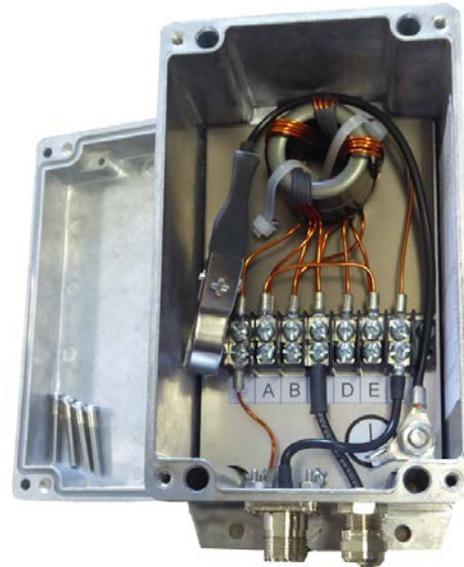


PRODUCT INFORMATION

Component THEMATCHBOX Impedance Matching Transformer

Part Number MBX.22

Image



Description

THEMATCHBOX is a broadband multi-tap transmission-line transformer that raises the magnitude of the characteristically low impedances of electrically short-end fed antennas to an impedance suitable for direct connection to 50-ohm coaxial cable without significant loss or standing wave ratio. Superior to conventional transformers which perform well only above 1 MHz, THEMATCHBOX works well at low frequencies (down to 100 kHz) due to its manganese zinc alloy composition.

The feed-point impedance of electrically short-end fed antennas is heavily influenced by local ground conductivity as well as the quality of the antenna's ground system, in addition to its physical length. Multiple impedance step-up ratios are required to cover a wide range of soil conductivity and ground-system variations encountered in the field. THEMATCHBOX can be field configured for 8 different impedance transformation ratios, matching antennas with feed-point impedances of between 3 and 37 ohms to a 50-ohm coaxial feed line.

THEMATCHBOX is designed for outdoor installation and is housed in a heavy-duty, weatherproof aluminum enclosure for mounting at the antenna feed point. Top and bottom flanges on the enclosure allow for simple installation on a variety of support types.

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Specs (cont'd)

Transformer Configurations:

Impedance Ratio	Feed-Point Impedance
1:16	3.1 Ω
1:12	4.2 Ω
1:9	5.6 Ω
1:4	12.5 Ω
1:3	16.7 Ω
1:2.25	22.2 Ω
1:1.75	28.6 Ω
1:1.4	35.7 Ω

Power Rating: 300 Watts Continuous

Frequency Range: 100 kHz to 1.7 MHz

Construction: Multi-Filar on Medium Permeability MnZn Toroid Core

Impedance Selection: Internal Jumper/Screw Terminals

Accessories: Mounting Straps; Ground Jumper/Clamp

Connectors: Coax: SO239; Ground: Internal Stud

Dimensions: Height 6.25"; Width 4.0"; Depth 3.25"

Height including Flanges: 7.5"

Cover Attachment: 4 Screws

Weight: 2.5 lbs

NEMA Rating: 1, 2, 4, 4X, 6, 12 and 13

IP Rating: IP68

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