

SEA 1612C

Automatic Antenna Tuner

- Manufactured in the USA
- Weather proof housing
- Ultra reliable in harsh conditions
- Usable with any SSB transceiver
- Eliminate presets or adjustments
- Automatic self tuning & antenna compensating
- Lockout, Duplex & Demand Tune



Designed and produced in the USA by SEA, an industry leader in high technology communications equipment, the SEA 1612C automatic MF/HF tuner combines the sophistication of advanced microprocessor techniques with high order practicality and operational reliability. The SEA 1612C is housed in a weatherproof molded case designed to withstand rugged environmental conditions encountered aboard ship while mounted on the external weather decks.

An automatic tuner/coupler is a necessity with modern multi-channel Marine MF/HF SSB transceivers like the SEA 235 and SEA 245G to obtain an efficient match between the antenna and radio. Also excellent for land mobile installations, the SEA 1612C is capable of tuning a vertical MF/HF antenna whip over a frequency range of 1.5 to 30 MHz.

The SEA 1612C is a versatile, fully automatic microprocessor-based antenna tuner. Upon the first receiver impulse, the transceiver initiates a rapid microprocessor controlled search/match procedure that

determines antenna characteristics and inter-connects the proper elements for optimum match and power transfer.

An internal microprocessor in the SEA 1612C has a "learning" capability that remembers which network constants were set in for a particular frequency. The SEA 1612C will continuously monitor and make adjustments automatically to any changes in the antenna system.

The SEA 1612C also includes the following features:
Duplex Mode makes use of a special control algorithm that senses the RECEIVE mode of duplex channels. **Tune Lockout** feature is useful when two or more transmitters are co-located. **Demand Tune** function allows the user to force the antenna tuner to re-tune on demand. The SEA 1612C is also available with an antenna grounding relay.

Contact SEA COM CORP at 425-71-2182 or email to sales@seacomcorp.com for more information regarding this model or other SEA products.

SEA 1612C Specifications

Frequency Range:

1.6 to 30 MHz

RF Power Handling Capability:

150 Watts PEP

Power Requirements:

13.6 VDC @ 300ma typical,

2.0 amps maximum

Internal Matching Networks

Microprocessor controlled, "Pi" or "L"

Input Impedance:

50 ohms

VSWR:

<2:1

Usable Antenna Lengths:

9 to 75 ft (nominal) (2.7 to 23 M)

Tuning range for Marine radio applications:

1.5 to 30 MHz using 23 ft antenna lengths (suggested)

Tuning Range for Land Mobile applications:

3 to 30 MHz using 9 ft (2.7M) Whip

Tuning Time: 1st time "Learn" mode

Less than 5 seconds (typical)

Control Cable:

No. 20 GA, 3 to 5 conductor, shielded cable

Environmental Temperature Range:

-30°C to +70°C

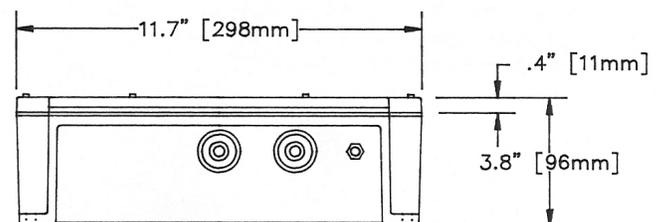
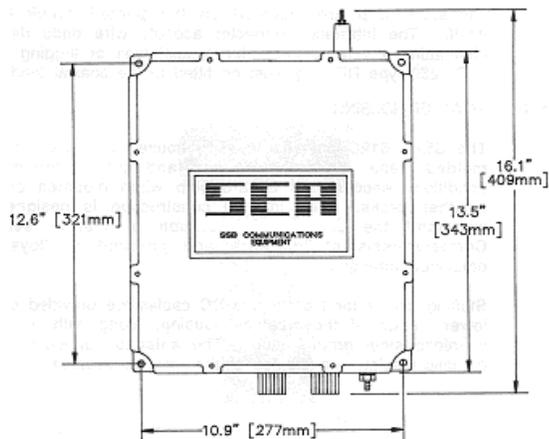
Dimensions:

Inches: 16 x 12 x 3.9

MM: 381 x 304.8 x 99

Weight:

10 pounds / 4.5 Kg.

**SEA COM CORPORATION**

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