

MARINE COMMUNICATION AND NAVIGATION EQUIPMENT

SART(Radar Transponder)

SART(Radar Transponder) (1).Product Overview: Search and rescue radar transponder (SART) is a homing device, belong to Global Maritime Distress and Safety System (GMDSS). Product performance ...

ISO9001 Supplier

Class Certificate

Export Supply



Key Highlights

Category	Marine Communication And Navigation Equipment
Standard	ISO
Weight / Size	(2).Technical specifications 1) Receiver and transmitter frequency range : ...
Certificate	CCS
We can supply according to your requirement, drawings, class certificate needs, and delivery schedule.	

Technical Specifications			
Category	Marine Communication And Navigation Equipment	Model / SKU	SART-Radar-Transponder

Standard	ISO	Weight / Size	(2).Technical specifications 1) Receiver and transmitter frequency range : 9200MHz-9500MHz 2) Antenna polarization : Horizontal polarization 3) Horizontal beam range : 360° 4) Vertical beam range : With respect to a horizontal plane of at least $\pm 12.5^{\circ}$ 5) Receiver sensitivity : Better than -50dBm 6) Equivalent isotropic radiated power : $\geq 400\text{mW}$ 7) Transmit allowable pulse width : $100\mu\text{s}$ 8) Receiving prohibit pulse width : $105\mu\text{s}\sim 110\mu\text{s}$ 9) Sweep range (linear fm) : 9200MHZ~9500MHZ 10) Sweep mode : Sawtooth waveform , positive period : $7.5\mu\text{s}\pm 1\mu\text{s}$, negative period : $0.4\mu\text{s}\pm 0.1\mu\text{s}$ 11) Sweep frequency repetition rate : In the period of $100\mu\text{s}$ transmit, sweep 12 times 12) After receiving , recovery time of the subsequent triggers : $\leq 10\mu\text{s}$ 13) Response delay time : $\leq 0.5\mu\text{s}$ 14) Temperature Range Environment temperature : $-20^{\circ}\text{C}\sim +55^{\circ}\text{C}$ Storage temperature : $-30^{\circ}\text{C}\sim +65^{\circ}\text{C}$ 15) Case protection grade : IP68 16) Case color : Yellow or orange (selectable) 17) Compass safety distance : 50cm 18) Battery life : Model (1) : 501 a) Operating voltage : Lithium batteryDC-7.2V, Current : 13500mAh b) Standby condition (Only receiver unit) : $\geq 96\text{h}$ c) In response (Sending and receiving) : $\geq 8\text{h}$ Model (2) : 605 a) Operating voltage : Lithium batteryDC-7.2V, current : 15000mAh b) Standby condition (Only receiver unit) : $\geq 100\text{h}$ c) In response (Sending and receiving) : $\geq 10\text{h}$ 19) Dimension : 100 (D) $\times$ 390 (L) mm 20) Weight : approx.
Certificate	CCS	Warranty	12 Months unless specified otherwise
Origin	China		

CONTENTS

■ SART(Radar Transponder)

■ (1).Product Overview:

■ (2).Technical specifications

SART(Radar Transponder)

(1). Product Overview:

Search and rescue radar transponder (SART) is a homing device, belong to Global Maritime Distress and Safety System (GMDSS).

Product performance to meet the relevant international standards, with independent intellectual property rights,

China Classification Society CCS (certificate number: FZ12T00011)

Register of fishing vessel of P.R.C. (certificate number: C00001300007).

Functions and features:

1. Navigation radar of search and rescue ship or helicopter detect pulses from the SART ,

The SART transmitting signal will display exactly position on radar screen of search and rescue ship or helicopter

2.Crew(survival) with hand-held SART or distress ship equipped with SART

will discover rescue ship or helicopter is getting close to them.

3. Utilize X-band small signal detection technique, waveform generation technology,

High-efficiency power conversion to achieve low power consumption,

With good electromagnetic compatibility, mature technology, reliable performance.

(2) . Technical specifications

1) Receiver and transmitter frequency range : 9200MHz-9500MHz

2) Antenna polarization : Horizontal polarization

3) Horizontal beam range : 360°

4) Vertical beam range : With respect to a horizontal plane of at least $\pm 12.5^\circ$

5) Receiver sensitivity : Better than -50dBm

6) Equivalent isotropic radiated power : $\geq 400\text{mW}$

7) Transmit allowable pulse width : 100 μs

8) Receiving prohibit pulse width : 105 μs ~110 μs

9) Sweep range (linear fm) : 9200MHZ~9500MHZ

10) Sweep mode : Sawtooth waveform , positive period : 7.5 μs $\pm$ 1 μs ,

negative period : 0.4 μs $\pm$ 0.1 μs

11) Sweep frequency repetition rate : In the period of 100μs transmit, sweep 12 times

12) After receiving , recovery time of the subsequent triggers : ≤10μs

13) Response delay time : ≤0.5μs

14) Temperature Range

Environment temperature : -20°C+55°C

Storage temperature : -30°C+65°C

15) Case protection grade : IP68

16) Case color : Yellow or orange (selectable)

17) Compass safety distance : 50cm

18) Battery life :

Model (1) : 501

a) Operating voltage : Lithium batteryDC-7.2V, Current : 13500mAh

b) Standby condition (Only receiver unit) : ≥ 96h

c) In response (Sending and receiving) : ≥ 8h

Model (2) : 605

a) Operating voltage : Lithium batteryDC-7.2V, current : 15000mAh

b) Standby condition (Only receiver unit) : ≥100h

c) In response (Sending and receiving) : ≥10h

19) Dimension : 100 (D) × 390 (L) mm

20) Weight : approx. 1000g

Note: Specifications are subject to change without notice.