



中国船级社  
CHINA CLASSIFICATION SOCIETY

证书编号/Certificate No.  
LT26PTA00001

型式认可证书  
CERTIFICATE OF TYPE APPROVAL

兹证明本证书所述制造厂具备按照下列标准的要求生产本证书所列产品的能力和条件。

**This is to certify** that the manufacturer stated in the certificate meets the requirements of the standards listed below and is available with the ability and conditions to produce the products described in the certificate.

品牌拥有方/ Licensor

**McMurdo Ltd.**

Holbrook Court, E1 Cumberland Business Centre, Northumberland Road, Southsea, Hampshire, PO5 1DS, UK

原始设备制造企业/Original Equipment Manufacture

**MACH Technology Rotterdam BV**

Galileistraat 32A 3029 AM Rotterdam, The Netherlands

产品名称/Product

**406MHz 紧急无线电示位标(COSPAS-SARSAT)  
406 MHz EPIRB (COSPAS-SARSAT)**

认可标准/Approval Standard

- IMO A. 694 (17) 决议《作为全球海上遇险和安全系统 (GMDSS) 组成部分的船载无线电设备和电子导航设备的一般要求》s and safety system(GMDSS)and for electronic navigational aids  
IMO Resolution A.694(17):General requirements for shipborne radio equipment forming part of the global maritime distress and safety system(GMDSS)and for electronic navigational aids
- 海安会 MSC. 471 (101) 决议:《在 406MHz 上工作的自浮式应急无线电示位标 (EPIRB) 的性能标准》  
IMO Resolution MSC. 471(101) Performance Standards For Float-Free Emergency Position-Indicating Radio Beacons (EPIRBs) Operating On 406 Mhz
- IEC61097-2:2021《全球海上遇险和安全系统 (GMDSS). 第2部分:COSPAS-SARSAT EPIRB工作在406MHz的卫星应急无线电示位标—操作和性能要求、测试方法和要求的试验结果》  
IEC61097-2:2021 Global Maritime Distress and Safety System (GMDSS) -Part 2: COSPAS-SARSAT EPIRB - Satellite Emergency Position Indicating Radio Beacon Operating on 406 MHz - Operational and Performance Requirements, Methods of Testing and Required Test Result

用于/Intended for

船舶/Ships



证书有效期至/ This Certificate is valid until **2031年07月14日/ Jul. 14,2031**

发证机构/中国船级社鹿特丹办事处  
Issued by **CCS Rotterdam Office**

签发日期 **2026年10月05日**  
Date **Oct. 05,2026**

本证书根据中国船级社规范和相关规定签发。所有证书页为一个整体,必须同时使用。纸质证书每页均须由本社盖章方为有效,电子证书含数字签名方为有效,本证书复印件无效。任何单位和个人均不应摘录或节选本证书的部分内容。有关方对所持证书的真实性有疑问时,可以向本社检验机构咨询。本证书凡是未注明版本的规范,其(发证时)最新版本适用于本证书。  
This Certificate is issued pursuant to the Rules of the Society and related regulation. All pages of the certificate are taken as a whole and are used simultaneously. No paper certificate page is valid without bearing the stamp of the Society, no electronic certificates is valid without the digital signature, and no copied form of the certificate is regarded as valid. Any part of the certificate is not to be extracted or abridged by any unit or individual in any form. Related parties who are doubted about the authenticity of the certificate may inquire of the Society or its offices. **For Rules with no version indication, their latest version (at the time of issuance of the certificate) applies to the certificate.**



Form No: T02-A

联系方式/Contact Us, 见本社官方网站/See official web site of the Society (<http://www.ccs.org.cn>)

UTN:P026-39960653

**产品明细/Product Description****406MHz 紧急无线电示位标(COSPAS-SARSAT)/406 MHz EPIRB (COSPAS-SARSAT) (M0001)**

| 名称/Name                                                   | 属性（值）/Value                                                                                                                                                                            | 单位/Unit |
|-----------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| 产品名称/Product Name                                         | 406MHz 紧急无线电示位标/ 406 MHz EPIRB (COSPAS-SARSAT)                                                                                                                                         |         |
| 型号/Type                                                   | Z712 McMurdo SMARTFIND G8 PLUS AIS EPIRB<br>Z712 Kannad Marine SAFEPRO PLUS AIS EPIRB<br>Z712 SAILOR 4065 EPIRB GNSS/AIS<br>Z712 Samyung ENC SEP-600AIS<br>Z712 Kodon KPB-10 AIS EPIRB |         |
| 工作频率/Operating Frequency                                  | 406.04 MHz / 121.5 MHz / 161.975 MHz, 162.025 MHz                                                                                                                                      |         |
| 输出功率/Output Power                                         | 5W / 70mW / 1W                                                                                                                                                                         |         |
| 工作时长/Working Hours                                        | 48 h at least                                                                                                                                                                          |         |
| 天线/Antenna                                                | Vertical Polarization                                                                                                                                                                  |         |
| 闪光率/Rate of Flashing                                      | 23 flashes per minute                                                                                                                                                                  |         |
| 罗经安全距离/Compass Safe Distance                              | 0.65                                                                                                                                                                                   | m       |
| COSPAS-SARSAT型式认可证书号<br>/COSPAS-SARSAT Certificate Number | No. 398                                                                                                                                                                                |         |
| 电池类型/Battery Type                                         | Lithium Iron Disulphide Battery                                                                                                                                                        |         |
| 电池型号/Battery Model                                        | Lithium Battery Pack                                                                                                                                                                   |         |
| 电池电压/Battery Voltage                                      | 9 V                                                                                                                                                                                    |         |
| 电池容量/Battery Capacity                                     | 3000 mAh                                                                                                                                                                               |         |
| 电池厂家/Battery Manufacturer                                 | McMurdo Ltd                                                                                                                                                                            |         |

**批准的图纸/Approved Drawings**

图纸批准号/ Drawings Approval No. : NP25PPP04092

**产品认可试验报告/ Approval Test Report**

试验报告编号/ Test Report No. : 75956943-07 Issue 02

试验报告日期/ Test Report Date : 2024-07-06

试验报告编号/ Test Report No. : 75956943-10 Issue 2

试验报告日期/ Test Report Date : 2025-11-10

试验报告编号/ Test Report No. : Z712 2515001

试验报告日期/ Test Report Date : 2025-04-08

试验报告编号/ Test Report No. : 75956943-01 Issue 02

试验报告日期/ Test Report Date : 2025-09-16

试验报告编号/ Test Report No. : 75931946 Report 02 Issue 3

试验报告日期/ Test Report Date : 2018-02-26

试验报告编号/ Test Report No. : 75956943-06 Issue 01

试验报告日期/ Test Report Date : 2025-07-21

试验报告编号/ Test Report No. : 75956943-03 Issue 01

试验报告日期/ Test Report Date : 2025-07-21

试验报告编号/ Test Report No. : 7191166085-CHM17 -CCK

试验报告日期/ Test Report Date : 2017-07-27

试验报告编号/ Test Report No. : 0C-1254-01

试验报告日期/ Test Report Date : 2023-01-31

试验报告编号/ Test Report No. : 75956943-08 Issue 01  
试验报告日期/ Test Report Date : 2025-08-01

试验报告编号/ Test Report No. : BSH/454. GNSS/003/00013#00004  
试验报告日期/ Test Report Date : 2022-12-22

试验报告编号/ Test Report No. : EP2-Z712-19c, EP2-Z712-19d  
试验报告日期/ Test Report Date : 2025-07-18

试验报告编号/ Test Report No. : 102921912LHD-001b  
试验报告日期/ Test Report Date : 2017-05-09

试验报告编号/ Test Report No. : 103143189LHD-001  
试验报告日期/ Test Report Date : 2017-08-16

试验报告编号/ Test Report No. : 75931946 Report 06 Issue 1  
试验报告日期/ Test Report Date : 2017-10-31

试验报告编号/ Test Report No. : 75931946 Report 09 Issue 1  
试验报告日期/ Test Report Date : 2017-10-27

试验报告编号/ Test Report No. : 75966943-02 Issue 01  
试验报告日期/ Test Report Date : 2025-07-21

试验报告编号/ Test Report No. : 75956943-09 Issue 01  
试验报告日期/ Test Report Date : 2025-09-16

试验报告编号/ Test Report No. : 75931946 Report 05 Issue 2  
试验报告日期/ Test Report Date : 2018-02-23

### 认可后的产品检验方式/ Method of Product Inspection after Approval

认可后的产品检验由制造厂按本社批准的产品检验计划进行，本社在文件审核合格后颁发船用产品证书。

After approval, product inspection should be carried out by the Manufacturer in accordance with the product inspection scheme approved by the Society, and the Marine Product Certificate is issued by the Society upon satisfactory documents review.

### 认可保持条件/ Maintenance Requirements of Approval

1. 型式认可后，如果产品及其重要零部件的设计、所用材料或制造方法有所改变，且影响到产品的主要特性、特征；或产品的性能指标有所更改，且超过认可的范围，则有关图纸和文件应经检验机构审批。并在检验机构认为必要时，经本社检验人员见证有关试验和进行检查，其结果应能证实仍符合认可条件。

After type approval, if there are changes to the design, materials used or manufacturing method of the product and important components and such changes affect major characteristics and properties of the product, or property indexes of the product are changed and exceed the scope of approval, related drawings and documents are to be examined and approved by the concerned survey office. Where deemed necessary by the survey office, the surveyor to the Society will go to witness relevant tests and conduct inspection and the results should be able to demonstrate compliance with the approval conditions.

2. 工厂的质量管理体系应保持有效运行，并且与认可时一致。如果质量管理体系发生改变，应经原体系认证机构审核并报本社批准。

The quality management system of the factory shall be ensure effective operation, and shall be the same as the situation of approval. If there are any changes to the quality management system, auditing of the original certification organization for quality management system and the society's approval shall be obtained.

3. 认可证书有效期内，如果出现可能导致本社取消认可的情况，工厂应及时采取有效的纠正措施。

Within the validity of the approval certificate, if cases occur that may cause the Society to withdraw the approval, the manufacturer should take corrective actions in a prompt and effective manner.

4. 在认可证书有效期内，本社检验人员可在未经事先通知的情况下对工厂的产品制造过程进行审核，以验证产品的生产是否符合业经本社批准的图纸和文件。工厂应予以配合。

Within the validity of the approval certificate, the surveyor to the Society may pay unannounced audit to the manufacturing process of the product in order to confirm whether it is in compliance

with the drawings and documents approved by the Society. The factory should provide an active cooperation and necessary for the surveyor.

5. 证书获得者应接受本社每年一次的定期审核，定期审核日为认可证书期满之日对应的每一周年日，检查工作应在周年日的前后三个月内进行。

Those who have obtained the certificate should be subject to periodical audit every year. The date of periodical audit shall be each anniversary date which corresponds to the date of expiry of the relevant certificate and the periodical audit shall be done within a time span of three months before and after the annual surveillance date.

6. 在本证书有效期内，品牌拥有方和产品制造企业之间的授权协议的失效将自动导致本证书的失效。

During the period of validity, this certificate will automatically be ineffective in case of the invalidity of the authorization agreement between the licensor and the manufacturer(s).

#### 备注/Remarks

1/本社已审核了产品厂无石棉声明，但本社的审核不免除产品厂按照合同关系向订货方保证产品无石棉的责任。

The declaration of asbestos-free submitted by manufacturer has been reviewed by the Society.

However, liability of the manufacturer to guarantee the products are asbestos-free to purchaser under contract will not be exempted.

2/This certificate is renewed from and supersedes the previous Type Approval Certificate No. LD25PTA00002.

3/ MED Module D Quality System Certificate. No. DK-MED005707-H1 Issue 19.

4/ MED Module B Type Examination Certificate. No. DK-MED000175 Issue 02.

5/Hardware:

Beacon model hardware part number (P/N) and version: P/N: 1002470 ,A01 Rev.5

Beacon model Software/Firmware (P/N) and version: P/N: 1002475 , Software N/A, A01 Build 3649 Date of issue:15/05/2025

Beacon model printed circuit board P/N and version: P/N1002472 A01, Rev.4

Z712 Circuit Schematic and PCB, Z712 BOM - Parts List, 23-106B Battery Assembly Issue 2, 23-108B Manual

Bracket Assembly Issue 2, 23-125B Auto Housing Assembly Issue 2

中国船级社鹿特丹办事处

CCS Rotterdam Office