

FCB Technical Acceptance Certificate

CB Number: UK0004

ISSUED TO	➤ Orolia Ltd Silver Point, Airport Service Road Portsmouth, PO3 5B, United Kingdom
CERTIFICATION No.	➤ 6913A-Z702E1E2
DESCRIPTION	➤ EPIRB
TYPE OF EQUIPMENT	➤ 287-E1E2
HVIN(s)	➤ Z702
PMN(S)	➤ McMurdo SmartFind G8, Kannad Safe Pro, Sailor 4065 EPIRB GNSS
FVIN(s)	➤ 23-507Z Issue A
TYPE OF LISTING:	➤ Family Certification
ANTENNA INFORMATION	➤ 3.5 dBi 406 antenna ➤ -1.5 dBi 121.5 homer antenna
RF EVALUATION TYPE	➤ RF Evaluation
SPECIFICATION(S)	➤ RSS-287 Issue 2
MANUFACTURING No.	➤ 6913A
REPRESENTATIVE No.	➤ 10768A
IC OATS FACILITY No.	➤ 2932B
IC OATS FACILITY	➤ TUV Product Service Limited

Authorised by:



Issue Date: 2018-12-05

Title of Signatory:

FCB Technical Certifier

Number: CD/010746

Issue: 2

On Behalf of TÜV SÜD BABT

I hereby attest that the subject equipment was tested and found in compliance with the above-noted specification

Certification of equipment means only that the equipment has met the requirements of the above-noted specification. Licence applications, where applicable to use certified equipment, are acted on accordingly by the ISED issuing office and will depend on the existing radio environment, service and location of operation. This certificate is issued on condition that the holder complies and will continue to comply with the requirements and procedures issued by ISED. The equipment for which this certificate is issued shall not be manufactured, imported, distributed, leased, offered for sale or sold unless the equipment complies with the applicable technical specifications and procedures issued by ISED.;

This certificate has been issued in accordance with the Certification Regulations of TÜV SÜD BABT.

Radio Details

Number: CD/010746 Issue 2

Frequency Min (MHz)	Frequency Max (MHz)	RF Power (W)		Occupied Bandwidth (kHz)	Emission Designator
		Min	Max		
406.040	406.040	2.041	18.6	4.95	G1D
121.5	121.5	0.0758	0.0849	20.19	A3X

CERTIFICATE OF TYPE APPROVAL

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.

Manufacturer

OROLIA LIMITED

Address

Silver Point, Airport Service Road, Portsmouth, PO3 5PB, UK

Product

Radio-Communication Equipment
406MHz (COSPAS-SARSAT)
406 MHz EPIRB (COSPAS-SARSAT)

Approval Standard

1. Regulation 14, PART C, CHAPTER IV of SOLAS, as Amended
2. IMO A. 810(19) :
IMO A.810(19) PERFORMANCE STANDARDS FOR FLOAT-FREE SATELLITE EMERGENCY POSITION INDICATING RADIO BEACONS (EPIRBs) OPERATING ON 406 MHz
3. IMO MSC. 120(74) :
IMO MSC.120(74) ADOPTION OF AMENDMENTS TO PERFORMANCE STANDARDS FOR FLOAT-FREE SATELLITE EMERGENCY POSITION-INDICATING RADIO BEACONS (EPIRBs) OPERATING ON 406 MHz (RESOLUTION A.810(19))
4. A. 694(17)

Resolution A.694(17): General Requirements for Ship borne Radio Equipment Forming Part of the Global Maritime Distress and Safety System (GMDSS) and for Electronic Navigational Aids

Intended for

International sea-going ship

This Certificate is valid until 2022 07 14 / Jul. 14, 2022

Issued by CCS Athens Branch Date Oct. 10, 2019

Product Description

406MHz

COSPAS-SARSAT)/406 MHz EPIRB (COSPAS-SARSAT) (M001)

Name	Value	Unit
Type	McMurdo Smartfind G8 Kannad Safe PRO	
Operating Frequency	406.04, 121.5	MHz
Output Power	5W ± 2dB and 50mW ± 3dB PERP	
Antenna	Blade vertically, polarised, omni-directional	
Battery Type	Lithium Battery Pack	
Battery Voltage	9	V
Battery Capacity	3000	mAh
Battery Manufacturer	OROLIA LTD	

Approved Drawings

Drawings Approval No. : NP18A00214

Approval Test Report

Test Report No. : 10292412LHD-001b
 Test Report Date : 2017-05-09

Test Report No. : BSH/4542/001/4143066/17
 Test Report Date : 2017-07-05

Test Report No. : 7191166085-CIM17-CCK
 Test Report Date : 2017-07-27

Test Report No. : 103143189LHD-001
 Test Report Date : 2017-08-16

Test Report No. : 75931946 Report 08 Issue 1
 Test Report Date : 2017-10-26

Test Report No. : 75931946 Report 07 Issue 1
 Test Report Date : 2017-10-26

Test Report No. : 75931946 Report 09 Issue 1
 Test Report Date : 2017-10-27

Test Report No. : 75931946 Report 06 Issue 1
 Test Report Date : 2017-10-31

Test Report No. : 75931946 Report 10 Issue 1
 Test Report Date : 2017-12-14

Test Report No. : 75931946 Report 04 Issue 5
 Test Report Date : 2018-02-02

Test Report No. : 75931946 Report 05 Issue 2
 Test Report Date : 2018-02-23

Test Report No. : 75931946 Report 02 Issue 3
 Test Report Date : 2018-02-26

Method of Product Inspection after Approval

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.

Maintenance Requirements of Approval

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.

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.

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.

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.

Those who have obtained the certificate of type approval A 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.

Remarks

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.

This Certificate is modified from and supersedes the previous Type Approval Certificate No. LD18Q00007.

2. The product had been also fully complied with ALL the applicable requirements of IMO MSC. 56(66),

3. COSPAS-SARSAT Type Approval Certificate No: 289-2.

4.

According to MED Module D Quality System Certificate. No. BABT-MED005707-III Issue 12. add the Details of the Production Facilities (Fabricator):

Name (1) : AsteeIFlash Tunisia SA

Declaration of Conformity

(Complies with EN/ISO/IEC 17050-1:2010)

We declare under our sole responsibility that the following product(s) / series,

Product	Type / Model
McMurdo SMARTFIND G8 AIS	406 MHz EPIRB (Cospas-Sarsat) with GNSS & AIS options
Kannad Marine Safe Pro AIS	406 MHz EPIRB (Cospas-Sarsat) with GNSS & AIS options
McMurdo SMARTFIND G8	406 MHz EPIRB (Cospas-Sarsat) with GNSS options
Kannad Marine Safe Pro	406 MHz EPIRB (Cospas-Sarsat) with GNSS options
McMurdo SMARTFIND E8	406 MHz EPIRB (Cospas-Sarsat)
Kannad Marine Safe	406 MHz EPIRB (Cospas-Sarsat)
Sailor 4065 EPIRB	406 MHz EPIRB (Cospas-Sarsat)
Sailor 4065 EPIRB GNSS	406 MHz EPIRB (Cospas-Sarsat) with GNSS options


are conform with the Directive 2014/90/EU of the European Parliament and of the Council of 23 July 2014, on marine equipment, and Commission Implementing Regulation (EU) 2021/1158 indicating design, construction and performance requirement and testing standards for marine equipment.

The product series have been tested to verify compliance with all applicable requirements of the following international instruments, regulations and testing standards.

Type approval requirements	Testing standards
<ul style="list-style-type: none"> SOLAS 74 Reg. IV/14, SOLAS 74 Reg. X/3, IMO Res. MSC.36(63)-(1994 HSC Code) 14, IMO Res. MSC.97(73)-(2000 HSC Code) 14. 	<ul style="list-style-type: none"> IEC 60945:2002 incl. IEC 60945 Corr. 1:2008, IEC 61097-2 ed3.0:2008.
Carriage and performance requirements	
<ul style="list-style-type: none"> SOLAS 74 Reg. IV/7, IMO Res. A.662(16), IMO Res. A.694(17), IMO Res. A.696(17), IMO Res. A.810(19), IMO Res. MSC.36(63)-(1994 HSC Code) 14, IMO Res. MSC.97(73)-(2000 HSC Code) 14, IMO MSC/Circ.862, IMO COMSAR/Circ.32, ITU-R M.633-4 (12/10), ITU-R M.690-3 (03/15). 	

As described in	EC Quality Systems Certificate Nr DK-MED000116
Issued by	TÜV SÜD DANMARK ApS
	Strandvejen 125
	DK-2900 Hellerup, Denmark
	Notified Body 2443
Quality Certificate:	EC Quality Systems Certificate Nr DK-MED005707-H1
Issued by	TÜV SÜD DANMARK ApS
	Strandvejen 125
	DK-2900 Hellerup, Denmark
	Notified Body 2443
Technical information maintained at	Netwave Systems BV
	Blauw-Roodlaan 100
	2718 SJ Zoetermeer, The Netherlands
E.U. Authorized Representative	Netwave Systems BV
	Blauw-Roodlaan 100
	2718 SJ Zoetermeer, The Netherlands

We, the undersigned, hereby declare that the product specified above complies to the listed directives and standards.

Sign  ature	Paul Smulders	Place of Issue:	Zoetermeer, the Netherlands
	CEO	Date of Issue:	7 th October 2021
	McMurdo Ltd.	Doc Number:	DOC-5000-Z7-01

Exclusion

The validity of this Declaration of Conformity is limited to the above-named product(s)



Danmark

Annex to Marine Equipment Directive Module B Type Examination Certificate

1 Equipment Description

406 MHz Emergency Positioning Indicating Radio Beacon (EPIRB) Equipment (Manual Deployment) with optional internal GNSS and AIS.

1.1 Models

Model	
Z701 McMurdo Smartfind G8 AIS <small>Notes 1, 2, 3, 4, 5, 6</small>	Z702 Kannad Safe PRO <small>Notes 1, 2, 3, 5, 6</small>
Z701 Kannad Safe PRO AIS <small>Notes 1, 2, 3, 4, 5, 6</small>	Z704 McMurdo Smartfind E8 <small>Notes 1, 2, 3, 6</small>
Z702 McMurdo Smartfind G8 <small>Notes 1, 2, 3, 5, 6</small>	Z704 Kannad Safe <small>Notes 1, 2, 3, 6</small>
SAILOR 4065 EPIRB <small>Notes 1, 2, 3, 5</small>	SAILOR 4065 EPIRB GNSS <small>Notes 1, 2, 3, 4, 5</small>

Note: SAILOR is a trademark of Thrane & Thrane A/S, Lundtoftegårdsvej 93D, 2800 Kongens Lyngby, Denmark and is used on these products with their permission.

2 Assessed Requirements

2.1 Implementing Regulation (EU)2021/1158

2.2 Compliance Requirements for MED/5.6

IMO Resolutions	International Testing Standards	
IMO Res. A.694(17)	IEC 60945 (2002) inc Corr.1	General Requirements for Marine Navigation Equipment (Inc. Corr1:2008)
IMO Res A.810(19) as amended by: IMO Res.MSC.56(66) & IMO Res.MSC.120(74) IMO Res MSC/Circ 862 IMO Res A.696(17) IMO Res A.662(16) ITU-R M.633-4 (12/10) ITU-R M.690-3 (03/15)	IEC 61097-2 (2008)	Global maritime distress and safety system (GMDSS) - Part 2: COSPAS-SARSAT EPIRB - Satellite emergency position indicating radio beacon operating on 406 MHz

3 Technical Documentation

3.1 Declaration of Conformity

DOC-5000-Z7-01

Dated

2021-10-07

3.2 User Guide

Smartfind G8 AIS, Smartfind G8, Smartfind E8 EPIRB-AIS User Manual, 23-024-EN-002.1
Kannad Marine Safe Pro AIS, Safe Pro, Safe EPIRB-AIS User Manual, 23-040-EN-002.1
SAILOR 4065 EPIRB/GNSS User Manual, 98-162215-B



Danmark

Annex to Marine Equipment Directive Module B Type Examination Certificate

3.3 Test Reports

3.3.1 IEC 61097-2 (2008)

BSH/4542/001/4143066/17	Dated	2017-07-13
75931946 Report 07 Issue 1	Dated	2017-10-26
75931946 Report 08 Issue 1	Dated	2017-10-26
75931946 Report 01 Issue 2	Dated	2017-04-13
75931946 Report 05 Issue 2	Dated	2018-02-23
75931946 Report 04 Issue 5	Dated	2018-02-02
OC-0615-01 Issue 1	Dated	2017-07-27
7191166085-CHM17-CCK	Dated	2017-07-27
103143189LHD-001	Dated	2017-08-16
102921912LHD-001b	Dated	2017-05-09
75931946 Report 03 Issue 04	Dated	2018-02-02

3.3.2 IEC 60945 (2002) inc. Corr.1

75931946 Report 07 Issue 1	Dated	2017-10-26
75931946 Report 06 Issue 1	Dated	2017-10-31

3.4 Build Status

3.4.1 Hardware

Overall Build Level 23-500-001B Issue A

Circuit Diagrams:

MED-Z701 Exhibit 05 - Circuit Diagram.pdf	Dated	2017-10-03
MED-Z702 Exhibit 05 - Circuit Diagram.pdf	Dated	2017-03-08
MED-Z704 Exhibit 05 - Circuit Diagram.pdf	Dated	2017-03-08

Parts Lists:

MED-Z701 Exhibit 07 – BOM.pdf	Dated	2017-10-03
MED-Z702 Exhibit 07 – BOM.pdf	Dated	2018-03-08
MED-Z704 Exhibit 07 – BOM.pdf	Dated	2018-03-08

3.4.2 Software^{Note 7}

V23-507Z Issue A

3.5 Notes

- Note 1 These units are tested and assessed to Class 2 temperature requirements.
- Note 2 These units can be supplied together with a manual release bracket.
- Note 3 These units can be supplied together with an auto-release housing.
- Note 4 These units are equipped with AIS functionality operating at 162 MHz.
- Note 5 These units are additionally equipped with GNSS receiver and long message capability for precision position location.
- Note 6 Marine COSPAS-SARSAT 406MHz EPIRBs form a distress alerting component of the Global Maritime Distress & Safety System (GMDSS). These beacons have been granted COSPAS-SARSAT Type Approval Certification; TAC Report No.289, dated 20 July 2017 (Z701); TAC Report No.289-2, dated 01 March 2018 (Z702 and SAILOR 4065 EPIRB GNSS); TAC Report No.289-3, dated 06 March 2018 (Z704 and SAILOR 4065 EPIRB)
- Note 7 This approval remains valid for equipment including subsequent minor software amendments which have been formally accepted in accordance with the TÜV SÜD Testing and Certification Regulations.

Annex to Marine Equipment Directive Module B Type Examination Certificate



Danmark

4 Additional Information

The Certificate Holder and Manufacturer details have been updated to reflect a company name change. The Certificate Holder and Manufacturer were listed as Orolia Limited on Certificate Reference DK-MED000116 Issue 04 and DK-MED000121 Issue 02.

5 Conditions of Validity

This certificate ceases to be valid if the manufacturer makes any changes or modifications to the approved equipment, which have not been notified to, and agreed with TÜV SÜD DANMARK ApS or a person appointed by TÜV SÜD DANMARK ApS to perform that role.

Should the specified regulations (internal conventions and the relevant resolutions and circulars of the IMO) or standards be amended and enforced through an Implementing Regulation during the validity of this certificate, the product(s) is/are to be reapproved prior to it/them being placed on the market or onboard vessels to which the amended regulations or standards apply.

The Mark of Conformity may only be affixed to the above type approved equipment and a manufacturer's Declaration of Conformity issued when the production-control phase module (D, E, or F) of Annex B of the directive is fully complied with and controlled by a written inspection agreement with a notified body.

Signature: *T. J. Twynam*

(Thomas J. Twynam)

Date:

2021-10-12

On behalf of TÜV SÜD DANMARK ApS

Annex to Marine Equipment Directive Module D Quality System Certificate



1 Details of the Production Facilities (Fabricators)

1.1 Name

Name: AsteelFlash Tunisie SA

1.2 Product Sectors Covered:

- Radiocommunication Equipment

2 Module B Type Examination Certificate Information

Item No. MED/5.6 406 MHz EPIRB (COSPAS-SARSAT)

Product	Implementing Regulation	Module B Certificate no.	Expiry Date	NB Number
McMurdo Smartfind G8 AIS	(EU)2021/1158	DK-MED000116	2022-11-07	2443
Kannad Marine Safe PRO AIS	(EU)2021/1158	DK-MED000116	2022-11-07	2443
McMurdo Smartfind G8	(EU)2021/1158	DK-MED000116	2022-11-07	2443
Kannad Safe PRO	(EU)2021/1158	DK-MED000116	2022-11-07	2443
McMurdo Smartfind E8	(EU)2021/1158	DK-MED000116	2022-11-07	2443
Kannad Safe	(EU)2021/1158	DK-MED000116	2022-11-07	2443
SAILOR 4065 EPIRB	(EU)2021/1158	DK-MED000116	2022-11-07	2443
SAILOR 4065 EPIRB GNSS	(EU)2021/1158	DK-MED000116	2022-11-07	2443


3 Conditions of Validity

The reference to Module B certificates relate to the issue of certificate valid at the time of issue. Any later issue(s) are also valid within the validity dates of this Module D certificate.

This certificate authorises the manufacturer (or his authorised representative established within the EU community) to affix the "Mark of Conformity" (Wheel Mark), in conjunction with an EC Type Examination (Module B) certificate appropriate, to one of the item designation types listed above.

This certificate loses its validity if the manufacturer makes any changes or modifications to the approved quality system which have not been notified to and agreed with TÜV SÜD DANMARK ApS.

The manufacturer must immediately cease affixing the "Mark of Conformity" on any product subject to suspension, termination, expiry, withdrawal or revocation of the supporting EC Type Examination (Module B) Certificate.

Signature: 
(Thomas J. Twynam)

Date: 2021-09-28

On behalf of TÜV SÜD DANMARK ApS



Product Safety Information
G8 AIS/G8/E8 Product Family
SafePro AIS/SafePro/Safe Product Family

McMurdo

SMARTFIND G8 AIS
SMARTFIND G8
SMARTFIND E8

23-001-001A

Kannad Marine

Marine SafePro AIS
Marine SafePro
Marine Safe

23-001-011A

Manufacturer: Orolia Ltd

Description: the product is a marine emergency distress beacon powered by Lithium batteries. Sealed inside the product, the batteries are in three packs each containing two small hermetically-sealed pressurised primary Lithium – Iron Disulfide cells.

Use Information

The batteries in this product have a limited service life: see label for expiry date.

The product contains no user-serviceable parts.

The product should only be disassembled by qualified service personnel.

DO NOT ATTEMPT TO RECHARGE THE BATTERIES.

Hazardous Substances

Under EC and US legislation this product is classified as a manufactured article, which does not result in exposure to any hazardous chemicals under normal conditions of use. As such the product does not require a Material Safety Data Sheet, and the following information is provided as a courtesy:

The Lithium content of each product is less than 6 g.

The cells within the product may contain the following active ingredients, by CAS number and name:

1333-86-4	Carbon Black
110-71-4	1,2 Dimethoxyethane
646-06-0	1,3-Dioxolane
7782-42-5	Graphite
1309-36-0	Iron Disulfide
7439-93-2	Lithium
10377-51-2	Lithium Iodide

No chemical hazard will be posed as long as the cells remain in their sealed condition.



Product Safety Information
G8 AIS/G8/E8 Product Family
SafePro AIS/SafePro/Safe Product Family

This information is given in good faith, and is believed to be accurate at the date of preparation. Orolia Ltd makes no warranty, either express or implied, with respect to this information, and disclaims all liability from reference on it.

Transport Information

Class:	Class 9
UN Number:	UN3091
UN Description:	Lithium Metal Batteries Contained in Equipment
IATA Packing Instruction for Air:	970 Section I
Packing Instruction for Road & Sea:	P903
Net Quantity:	0.30 kg

Disposal Information

DO NOT INCINERATE.

DO NOT DISCARD IN DOMESTIC WASTE.

At the end of the product's useful life, it is vital that the battery packs be disconnected from the main unit to prevent false alarms. False alarms cause expensive disruption to Search and Rescue services and may endanger lives as a consequence.

Instructions on battery removal can be found in the End Of Life Statement in the product User Manual. This operation should only be performed by qualified service personnel.

This product should be disposed of in a sensible and considerate manner, and in accordance with local regulations. Take it to a civil recycling facility, or contact Orolia for advice.

Green Passport: Ship Recycling Information

Orolia Ltd hereby declares potentially hazardous content in some of its electronic products.

Small amounts of the following substances may be present: beryllium oxide, lithium, lead (in older products), brominated flame retardants, glass.

In keeping with European directive 2012/19/EU (Waste Electronic and Electrical Equipment) and the provisions of IMO Resolution A.962(23) (Guidelines On Ship Recycling), Orolia strongly recommends that its products, including any battery packs, be disposed of in a considerate and legal manner. Additional information, concerning the disposal of equipment can also be found in the relevant equipment User Manual, under the heading: End of Life Statement.



G8 AIS/G8/E8 EPIRB Battery Kits
SafePRO AIS/SafePRO/Safe EPIRB Battery Kits
4065 EPIRB GNSS/ 4065 EPIRB

McMurdo, Kannad, Sailor variants **23-270A**

Manufacturer: Orolia Ltd

Description: the product is a replacement Battery Kits for a range of marine emergency distress beacons. The Kit consists three packs each containing two small hermetically-sealed pressurised primary Lithium – Iron Disulfide cells.

Use Information

The batteries in this product have a limited service life: see label for expiry date.

The product contains no user-serviceable parts.

The product should only be disassembled by qualified service personnel.

DO NOT ATTEMPT TO RECHARGE THE BATTERIES.

Hazardous Substances

Under EC and US legislation this product is classified as a manufactured article, which does not result in exposure to any hazardous chemicals under normal conditions of use. As such the product does not require a Material Safety Data Sheet, and the following information is provided as a courtesy:

The Lithium content of each product is less than 6 g.

The cells within the product may contain the following active ingredients, by CAS number and name:

1333-86-4	Carbon Black
110-71-4	1,2 Dimethoxyethane
646-06-0	1,3-Dioxolane
7782-42-5	Graphite
1309-36-0	Iron Disulfide
7439-93-2	Lithium
10377-51-2	Lithium Iodide

No chemical hazard will be posed as long as the cells remain in their sealed condition.

This information is given in good faith, and is believed to be accurate at the date of preparation. Orolia Ltd makes no warranty, either express or implied, with respect to this information, and disclaims all liability from reference on it.



Product Safety Information
G8 AIS/G8/E8 EPIRB Battery Kits
SafePRO AIS/SafePRO/Safe EPIRB Battery Kits

Transport Information

Class:	Class 9
UN Number:	UN3090
UN Description:	Lithium Metal Batteries
IATA Packing Instruction for Air:	968 Section I
Packing Instruction for Road & Sea:	P903
Net Quantity:	0.30 kg

Disposal Information

DO NOT INCINERATE.

DO NOT ATTEMPT TO DISMANTLE.

DO NOT DISCARD IN DOMESTIC WASTE.

This product should be disposed of in a sensible and considerate manner, and in accordance with local regulations. Take it to a civil recycling facility, or contact Orolia for advice.

Green Passport: Ship Recycling Information

Orolia Ltd hereby declares potentially hazardous content in some of its electronic products.

Small amounts of the following substances may be present: beryllium oxide, lithium, lead (in older products), brominated flame retardants, glass.

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TCB

**GRANT OF EQUIPMENT
AUTHORIZATION**

TCB

Certification

**Issued Under the Authority of the
Federal Communications Commission**

By:

TUV SUD BABT

Date of Grant: 04/30/2018

Application Dated: 04/25/2018

**Orolia Ltd
Silver Point
Airport Service Road
Portsmouth, PO3 5PB
United Kingdom**

Attention: Erwan Thomas , Certification and hardware engineer

NOT TRANSFERABLE

EQUIPMENT AUTHORIZATION is hereby issued to the named GRANTEE,
and is VALID ONLY for the equipment identified hereon for use under the
Commission's Rules and Regulations listed below.

FCC IDENTIFIER: KLS-Z702

Name of Grantee: Orolia Ltd

Equipment Class: 406 MHz EPIRB

Notes: Marine EPIRB

<u>Grant Notes</u>	<u>FCC Rule Parts</u>	<u>Frequency Range (MHZ)</u>	<u>Output Watts</u>	<u>Frequency Tolerance</u>	<u>Emission Designator</u>
CS GM	80.1101(c)(5)	121.5 - 121.5	0.1	0.119 PM	3K20A3K
CS GM	80.1101(c)(5)	406.04 - 406.04	5.0	1.9 Hz	16K0G1D

May be provided with mounting bracket or hydrostatic release kit. Approved as
COSPAS - SARSAT Class 2 device. This equipment meets RTCM, IEC and IMO
standards

CS: Transmitter meets technical requirements only for use at ship stations.

GM: This unit meets requirements for GMDSS use as contained in Subpart W of Part 80.