LS-EMSP-AL (170X180) CUS - Device marker

0831909

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Device marker, Aluminum label, can be ordered: Piece, labeled according to customer specifications, mounting type: screw, rivet, Number of individual labels: 1, text field height: 180 mm, text field width: 170 mm

Your advantages

- Aluminum equipment marking for screwing or riveting

Commercial data

Item number	0831909
Packing unit	1 pc
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Product key	BG814D
GTIN	4046356930482
Weight per piece (including packing)	9.99 g
Weight per piece (excluding packing)	9.99 g
Country of origin	PL

Technical data

Product properties

Product type	Device marker

Marking

Number of individual labels	1
Identification technology	Direct laser marking

Dimensions

Width	180.00 mm
Height	180.00 mm
Depth	1.50 mm
Length	180 mm

Text field

Text field width	170 mm
Text field height	180 mm

Material specifications

Color	aluminum color
Base element material	Aluminum
Components	free from silicone, halogen, and cadmium

Environmental and real-life conditions

Ambient conditions

Ambient temperature (operation)	-20 °C ... 225 °C (At temperatures above 80 °C there might be a slight change to the material surface)
Recommended ambient temperature (storage/transport)	23 °C
Recommended humidity (storage/transport)	50 % (Storage in a dry and dark place in the original packaging is recommended)

Test for substances that would hinder coating with paint or varnish

Testing for paint wetting impairment substances (LABS-conformity)	VDMA 24364:2018-05
Result	Test passed

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Testing for paint wetting impairment substances (LABS-conformity)	VW PV 3.10.7:2005-02
Result	Test passed

Scratch resistance

Specification	EN ISO 1518-1:2023 (following)
Requirements	≥ 5 N
Result	Test passed

Tesafilm test

Specification	DIN EN ISO 2409:2020-12 (following)
Result	Test passed

UV resistance

Specification	DIN EN ISO 4892-2:2021-11 (following)
Result	Test passed
Test duration	96 h
Procedure	Artificial irradiation.

Temperature resistance

Specification	ANSI/UL 969-2018:03 (following)
Test duration	240 h
Rating 225 °C (250 °C)	Test passed

Wipe resistance of inscriptions

Specification	DIN EN 61010-1 (VDE 0411-01):2020-03
	DIN EN 62208 (VDE 0660-511):2012-06 (in parts)
Isopropanol (99%) [67-63-0]	Test passed
n-Hexane [CAS No. 110-54-3]	Test passed
Water + Petroleum ether [CAS No. 64742-82-1]	Test passed
Sodium hydroxide 0.1 mol/l [CAS No. 1310-73-2]	Test passed
Ethanol (99 %) [CAS No. 64-17-5]	Test passed
Acetone (99 %) [CAS No. 67-64-1]	Test passed

Immersion in chemicals, oil & fuel

Specification	ISO 175:2010 (following)
Test duration	168 h
Saltwater (saturated 350 g/l) [CAS No. -]	Test passed
Ethanol (99 %) [CAS No. 64-17-5]	Test passed
Acetone (99 %) [CAS No. 67-64-1]	Test passed
Methylethylketone (MEK) [CAS No. 78-93-3]	Test passed
IRM 901	Test passed
IRM 902	Test passed
IRM 903	Test passed

Testing in a condensation changing climate in the presence of sulfur dioxide

Specification	EN ISO 22479:2022-06
Result	Test passed

Procedure	Method B
Cycles	2

Salt spray test

Specification	DIN EN IEC 60068-2-11 (VDE 0468-2-11):2022-10
Result	Test passed
Test duration	96 h

High pressure test

Specification	ISO 20653:2013-02
Result	Test passed
IP-Code	IP X9K

Standards and regulations

Wipe resistance	DIN EN 61010-1 (VDE 0411-1)

Mounting

Mounting type	screw, rivet

Classifications

ECLASS

ECLASS-13.0	27281103
ECLASS-15.0	27281103

ETIM

ETIM 10.0	EC001288

UNSPSC

UNSPSC 21.0	39131500

Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions

EU REACH SVHC

REACH candidate substance (CAS No.)	No substance above 0.1 wt%

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