

# EML-HT (40X15)R CUS - High-temperature label



0830168

<https://www.phoenixcontact.com/us/products/0830168>

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



High-temperature label, for thermal transfer printers, round, with 12 mm diameter, resistant for 60 s at up to 300°C, individual month and year identification

## Your advantages

- The EML-HT label is made of an acrylate film that is highly temperature-resistant. It can be used for marking printed circuit boards and in all industrial soldering processes
- Continuous temperature range of -40 °C ... 180 °C, 300 °C for up to 60 seconds
- When combined with the ink ribbon THERMOMARK-RIBBON 110 EML-HT, the marking is highly resistant to high temperatures and chemicals
- The EML-HT ... materials are UL-listed
- Labeling service: Phoenix Contact can custom-label all EML-HT ... markers in accordance with your requirements

## Commercial data

|                                      |                                |
|--------------------------------------|--------------------------------|
| Item number                          | 0830168                        |
| Packing unit                         | 1 pc                           |
| Minimum order quantity               | 1 pc                           |
| Note                                 | Made to order (non-returnable) |
| Product key                          | BG8141                         |
| GTIN                                 | 4046356627993                  |
| Weight per piece (including packing) | 0.33 g                         |
| Weight per piece (excluding packing) | 0.33 g                         |
| Country of origin                    | PL                             |

# EML-HT (40X15)R CUS - High-temperature label



0830168

<https://www.phoenixcontact.com/us/products/0830168>

## Technical data

### Product properties

|                  |                                 |
|------------------|---------------------------------|
| Product type     | Device marker                   |
| Product property | Highly resistant to temperature |

### Marking

|                                     |                |
|-------------------------------------|----------------|
| Number of individual labels         | 2              |
| Number of individual labels per row | 2              |
| Identification technology           | Thermotransfer |

### Dimensions

|        |          |
|--------|----------|
| Width  | 40.00 mm |
| Height | 15.00 mm |
| Depth  | 0.07 mm  |
| Length | 15 mm    |

### Text field

|                   |       |
|-------------------|-------|
| Text field width  | 40 mm |
| Text field height | 15 mm |

### Material specifications

|                       |                                |
|-----------------------|--------------------------------|
| RoHS compliant        | yes                            |
| Foil strength         | 50 µm                          |
| Adhesive strength     | 20 µm                          |
| Adhesive              | Acrylic                        |
| Color                 | white (RAL 9010)               |
| Material              | Acrylate                       |
| Base element material | Acrylate                       |
| Components            | free from silicone and halogen |

### Environmental and real-life conditions

#### Ambient conditions

|   |                   |
|---|-------------------|
| Ambient temperature (operation)                     | -40 °C ... 180 °C |
| Recommended ambient temperature (storage/transport) | 23 °C             |
| Recommended humidity (storage/transport)            | 50 %              |

#### Test for substances that would hinder coating with paint or varnish

|   |                         |
|---|-------------------------|
| Testing for paint wetting impairment substances (LABS-conformity) | VDMA 24364-A1-L:2018-05 |
| Result  | Test passed             |

#### Scratch resistance

|               |                                |
|---------------|--------------------------------|
| Specification | EN ISO 1518-1:2023 (following) |
|---------------|--------------------------------|

#### Tesafilm test

# EML-HT (40X15)R CUS - High-temperature label



0830168

<https://www.phoenixcontact.com/us/products/0830168>

|               |                                     |
|---------------|-------------------------------------|
| 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 125 °C (150 °C) | Test passed                     |

## Wipe resistance of inscriptions

|   |   |
|---|---|
| Specification                                     | DIN EN 61010-1 (VDE 0411-1):2011-07<br>DIN EN 62208 (VDE 0660-511):2012-06 (in parts) |
| Isopropanol (99%) [67-63-0]                       | Test passed   |
| n-Hexane<br>[CAS No. 110-54-3]                    | Test passed   |
| Water + Petroleum ether<br>[CAS No. 64742-82-1]   | Test passed   |
| Sodium hydroxide 0.1 mol/l<br>[CAS No. 1310-73-2] | Test passed   |
| Ethanol (99 %)<br>[CAS No. 64-17-5]               | Test passed   |

## Immersion in chemicals, oil & fuel

|   |                          |
|---|--------------------------|
| Specification                                 | ISO 175:2010 (following) |
| Test duration                                 | 168 h                    |
| Saltwater (saturated 350 g/l)<br>[CAS No. - ] | 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 | DIN EN ISO 22479:2022-08 |
| 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  |

## Standards and regulations

# EML-HT (40X15)R CUS - High-temperature label



0830168

<https://www.phoenixcontact.com/us/products/0830168>

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

## Mounting

|               |          |
|---------------|----------|
| Mounting type | adhesive |
|---------------|----------|

# EML-HT (40X15)R CUS - High-temperature label



0830168

<https://www.phoenixcontact.com/us/products/0830168>

## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/0830168>



**UL Recognized**

Approval ID: MH48542

# EML-HT (40X15)R CUS - High-temperature label



0830168

<https://www.phoenixcontact.com/us/products/0830168>

## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-13.0 | 27281103 |
| ECLASS-15.0 | 27281103 |

### ETIM

|           |          |
|-----------|----------|
| ETIM 10.0 | EC001288 |
|-----------|----------|

### UNSPSC

|             |          |
|-------------|----------|
| UNSPSC 21.0 | 39131500 |
|-------------|----------|

# EML-HT (40X15)R CUS - High-temperature label



0830168

<https://www.phoenixcontact.com/us/products/0830168>

## 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% |
|-------------------------------------|----------------------------|

Phoenix Contact 2026 © - all rights reserved

<https://www.phoenixcontact.com>

Phoenix Contact USA  
586 Fulling Mill Road  
Middletown, PA 17057, United States  
(+717) 944-1300  
[info@phoenixcon.com](mailto:info@phoenixcon.com)