

# EML-HT (15X15)R CUS - High-temperature label



0830170

<https://www.phoenixcontact.com/us/products/0830170>

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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                          | 0830170                        |
| Packing unit                         | 1 pc                           |
| Minimum order quantity               | 1 pc                           |
| Note                                 | Made to order (non-returnable) |
| Product key                          | BG8141                         |
| GTIN                                 | 4046356628013                  |
| Weight per piece (including packing) | 1.4 g                          |
| Weight per piece (excluding packing) | 1.4 g                          |
| Country of origin                    | PL                             |

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## Technical data

### Product properties

|                  |                                 |
|------------------|---------------------------------|
| Product type     | Gerätemarker                    |
| Product property | Highly resistant to temperature |

### Marking

|                                     |   |
|-------------------------------------|---|
| Number of individual labels per row | 4 |
|-------------------------------------|---|

### Dimensions

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

### Material specifications

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

### Environmental and real-life conditions

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

|               |                                       |
|---------------|---------------------------------------|
| Result        | Test passed                           |
| Specification | DIN EN ISO 1518-1:2019-10 (following) |

#### Tesa film test

|               |                                  |
|---------------|----------------------------------|
| Specification | DIN EN ISO 2409:2013 (following) |
| Result        | Test passed                      |

#### UV resistance

|               |                                |
|---------------|--------------------------------|
| Specification | ISO 4892-2:2013-03 (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

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|                                                   |                                                |
|---------------------------------------------------|------------------------------------------------|
| Specification                                     | DIN EN 61010-1 (VDE 0411-1):2011-07            |
|                                                   | DIN EN 62208 (VDE 0660-511):2012-06 (in parts) |
| Isopropyl<br>[CAS No. 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                                    |
| Specification                                     | ISO 175:2010 (following)                       |
| Test duration                                     | 168 h                                          |
| IRM 901                                           | Test passed                                    |
| IRM 902                                           | Test passed                                    |

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

|               |                               |
|---------------|-------------------------------|
| Specification | DIN 50018:2013-05 (following) |
| Result        | Test passed                   |
| Climate level | AHT 1.0 S                     |
| Cycles        | 2                             |

## Salt spray test

|               |                           |
|---------------|---------------------------|
| Specification | DIN EN 60068-2-11:2000-02 |
| Result        | Test passed               |
| Test duration | 96 h                      |

## Ambient conditions

|                                                     |                                                                                          |
|-----------------------------------------------------|------------------------------------------------------------------------------------------|
| Ambient temperature (operation)                     | -40 °C ... 180 °C                                                                        |
| Ambient temperature (assembly)                      | > 4 °C                                                                                   |
| Short-term temperature                              | 300 °C (1 minute, maximum)                                                               |
| Recommended storage conditions                      | 23 °C / 50 % relative humidity. Storage in poly bags is recommended prior to processing. |
| Recommended ambient temperature (storage/transport) | 23 °C                                                                                    |
| Recommended humidity (storage/transport)            | 50 %                                                                                     |
| Shelf life                                          | 2 years                                                                                  |

## Standards and regulations

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

## Mounting

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

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## Approvals

 To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/0830170>



**UL Recognized**

Approval ID: MH48542

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## Classifications

### ECLASS

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

### ETIM

|          |          |
|----------|----------|
| ETIM 9.0 | EC001288 |
|----------|----------|

### UNSPSC

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

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## 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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