

PART NUMBER CREATOR

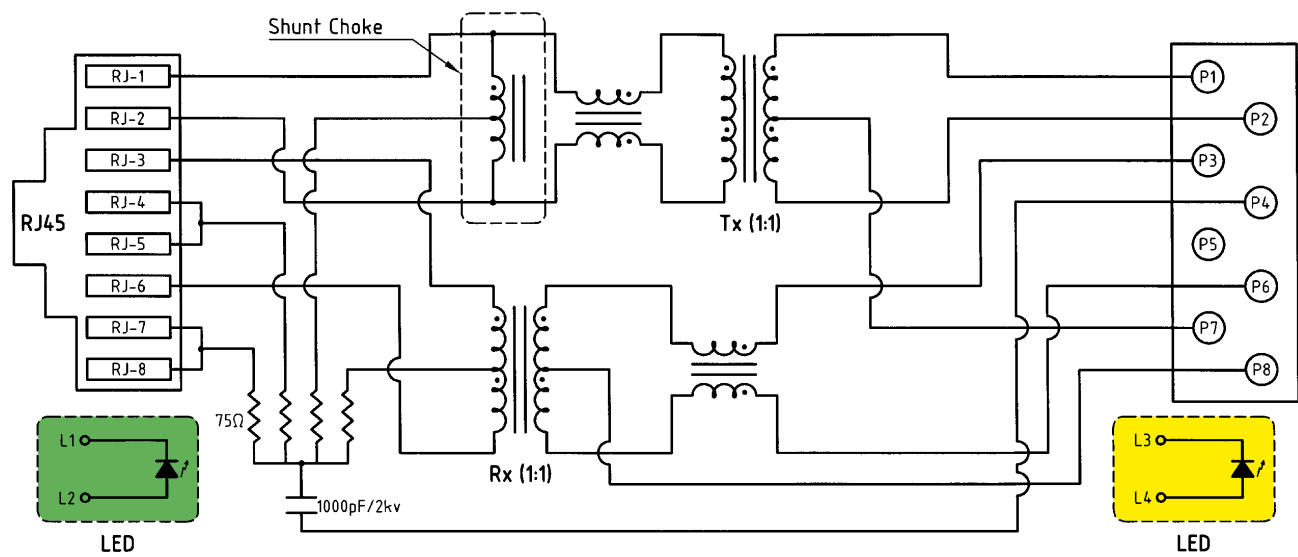
|                                                                         |      |   |   |   |   |   |   |   |   |   |   |   |
|-------------------------------------------------------------------------|------|---|---|---|---|---|---|---|---|---|---|---|
|                                                                         | RJ45 | T | J | S | 1 | 1 | A | C | O | N | O | X |
| Product Line                                                            |      |   |   |   |   |   |   |   |   |   |   |   |
| PCB-Termination                                                         |      |   |   |   |   |   |   |   |   |   |   |   |
| T = Solder pin, straight                                                |      |   |   |   |   |   |   |   |   |   |   |   |
| S = SMT                                                                 |      |   |   |   |   |   |   |   |   |   |   |   |
| Contact finish                                                          |      |   |   |   |   |   |   |   |   |   |   |   |
| J = Min. 50 micro inch, 1.27μ gold plated over nickel                   |      |   |   |   |   |   |   |   |   |   |   |   |
| Other plating options are available.                                    |      |   |   |   |   |   |   |   |   |   |   |   |
| Shielding                                                               |      |   |   |   |   |   |   |   |   |   |   |   |
| S = Fully shielded                                                      |      |   |   |   |   |   |   |   |   |   |   |   |
| Number of ports                                                         |      |   |   |   |   |   |   |   |   |   |   |   |
| 1 = 1 Port                                                              |      |   |   |   |   |   |   |   |   |   |   |   |
| 2 = 2 Ports                                                             |      |   |   |   |   |   |   |   |   |   |   |   |
| 4 = 4 Ports                                                             |      |   |   |   |   |   |   |   |   |   |   |   |
| 6 = 6 Ports                                                             |      |   |   |   |   |   |   |   |   |   |   |   |
| 8 = 8 Ports                                                             |      |   |   |   |   |   |   |   |   |   |   |   |
| Number of rows                                                          |      |   |   |   |   |   |   |   |   |   |   |   |
| 1 = 1 row                                                               |      |   |   |   |   |   |   |   |   |   |   |   |
| Turns ratio of transformer                                              |      |   |   |   |   |   |   |   |   |   |   |   |
| A = 1:1/1:1 (Tx/Rx)                                                     |      |   |   |   |   |   |   |   |   |   |   |   |
| B = 1:1.414/1:1 (Tx/Rx)                                                 |      |   |   |   |   |   |   |   |   |   |   |   |
| Other turns ratio of transformer are available, please contact factory. |      |   |   |   |   |   |   |   |   |   |   |   |
| Shunt choke option                                                      |      |   |   |   |   |   |   |   |   |   |   |   |
| C = With shunt choke in transmit channel                                |      |   |   |   |   |   |   |   |   |   |   |   |
| N = Without shunt choke in transmit channel                             |      |   |   |   |   |   |   |   |   |   |   |   |
| Impedance matching resistors                                            |      |   |   |   |   |   |   |   |   |   |   |   |
| O = Without impedance matching resistors                                |      |   |   |   |   |   |   |   |   |   |   |   |
| LED Color options                                                       |      |   |   |   |   |   |   |   |   |   |   |   |
| N = Without LED                                                         |      |   |   |   |   |   |   |   |   |   |   |   |
| 1 = Green LED (left), yellow LED (right)                                |      |   |   |   |   |   |   |   |   |   |   |   |
| Other LED combinations are available, please contact factory.           |      |   |   |   |   |   |   |   |   |   |   |   |
| Standard                                                                |      |   |   |   |   |   |   |   |   |   |   |   |
| OX = Standard                                                           |      |   |   |   |   |   |   |   |   |   |   |   |

## TECHNICAL DATA

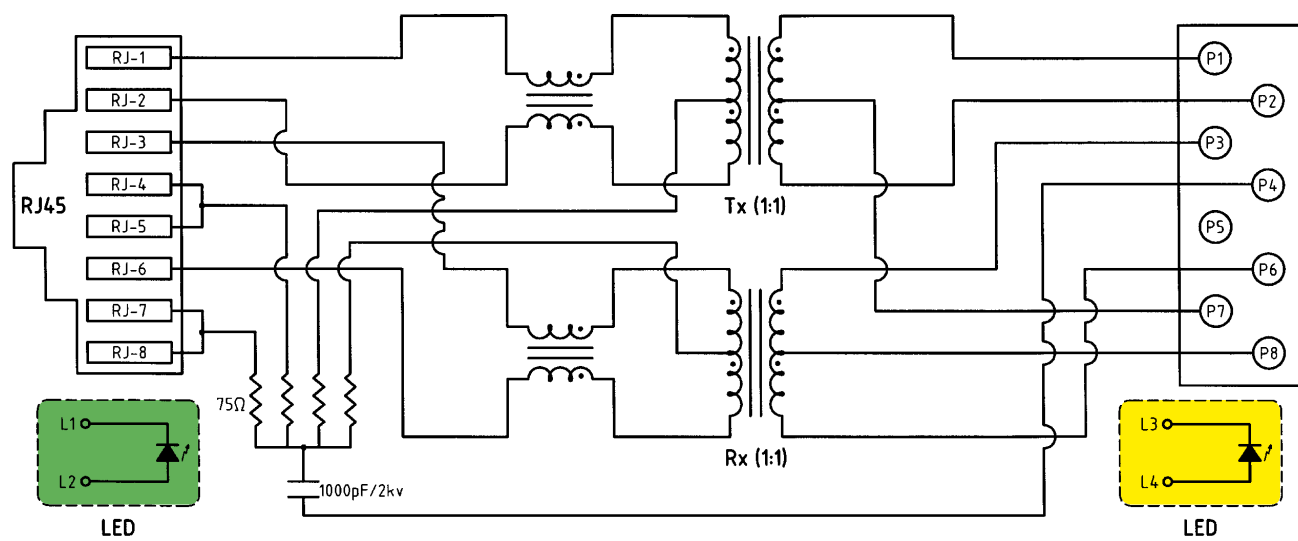
| Specifications                                                  |                                                                                       |
|-----------------------------------------------------------------|---------------------------------------------------------------------------------------|
| Housing, solder pin, straight                                   | Polyester glass filled, black, UL94 V-0                                               |
| Housing, SMT-Termination                                        | Nylon 46 glass filled, black, UL94 V-0                                                |
| Shielding                                                       | .008" / 0.20 mm thick copper alloy                                                    |
| Contact material                                                | .014" / 0.35 mm thick copper alloy                                                    |
| Mating area plating                                             | 50µ" / 1.27 µm gold min. over 30µ" / 0.76 µm min. nickel                              |
| Solder tails plating                                            | Tin plated                                                                            |
| OCL (Open Circuit Inductance)                                   | Min. 350 µH at 8mA DC bias                                                            |
| Leakage inductance                                              | Max. 0.35 µH                                                                          |
| Inter-winding capacitance                                       | Max. 25 pF                                                                            |
| DC-Resistance                                                   | Max. 1.0 Ω                                                                            |
| Turns ratio                                                     | 1:1/1:1 ± 3% or Tx/Rx = 1:1.414/1:1 ± 3%                                              |
| Rise time and fall time                                         | 3.0 ns (typical)                                                                      |
| Mating force                                                    | Max. 22 N                                                                             |
| Retention force                                                 | Min. 89 N                                                                             |
| Mating cycles                                                   | Min. 1 000                                                                            |
| Contact resistance                                              | Max. 20 mΩ                                                                            |
| Insulation resistance                                           | Min. 1000 mΩ                                                                          |
| Dielectric with standing voltage                                | 1 500V ms (Signal to Shield)                                                          |
| Current rating                                                  | Max. 0,05A                                                                            |
| Spezifikation at 25°C<br>(Operating temperature -40°C to +85°C) |                                                                                       |
| Insertion loss                                                  | 0.1-100 MHZ      1.0 dB max                                                           |
| Return loss                                                     | 0.1-30 MHZ      20.0 dB Type<br>60 MHZ      15.0 dB Type<br>80 MHZ      12.0 dB Type  |
| Next near and cross talk                                        | 0.1-30 MHZ      50.0 dB Type<br>60 MHZ      45.0 dB Type<br>100 MHZ      40.0 dB Type |
| Differential to common mode rejection                           | 60 MHZ      40.0 dB Type<br>100 MHZ      35.0 dB Type                                 |
| Common mode rejection ration                                    | 60 MHZ      35.0 dB Type<br>100 MHZ      30.0 dB Type                                 |
| Hi-Pot                                                          | 1500 Vrms      60 sec.                                                                |
| Standard-LED                                                    |                                                                                       |
| Color                                                           | Green      Yellow                                                                     |
| Wave length                                                     | 565 nm      585 nm                                                                    |
| Forward voltage with I <sub>F</sub> =20 mA                      | 2.6 V (max)<br>2.1 V (Type)      2.6 V (max)<br>2.0 V (Type)                          |
| Reserve voltage with I <sub>R</sub> =10 µA                      | 5.0 V (Type)      5.0 V (Type)                                                        |
| Luminous intensity with I <sub>F</sub> =20 mA                   | 15 mcd (min)<br>25 mcd (Type)      20 mcd (min)<br>30 mcd (Type)                      |

SCHEMATICS

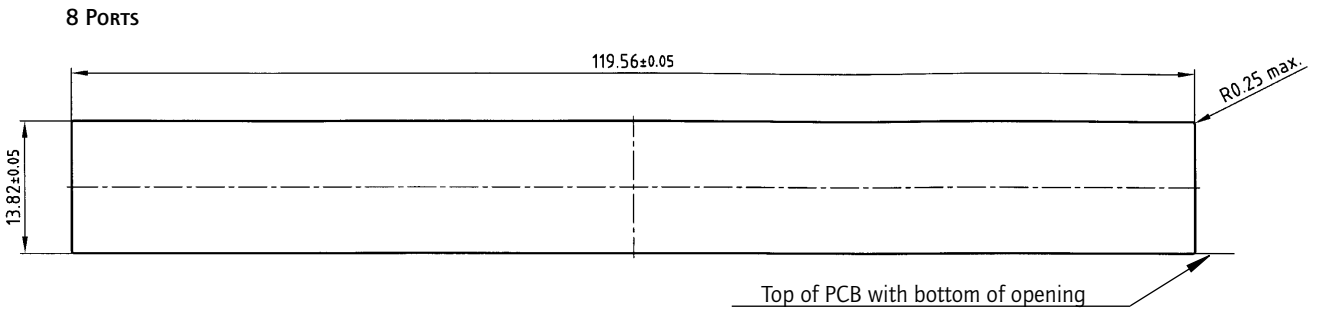
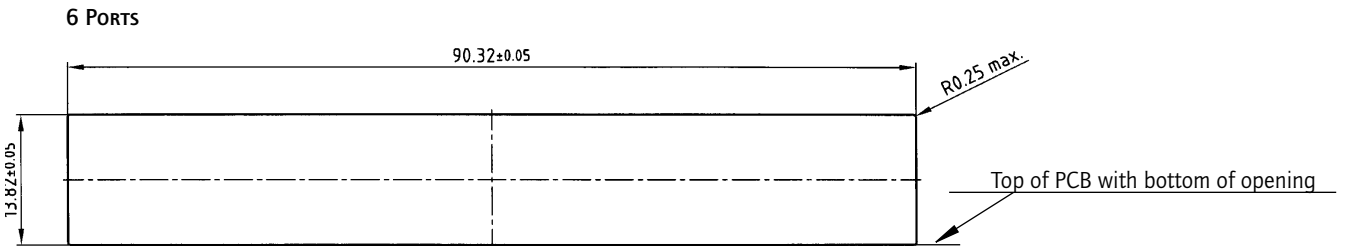
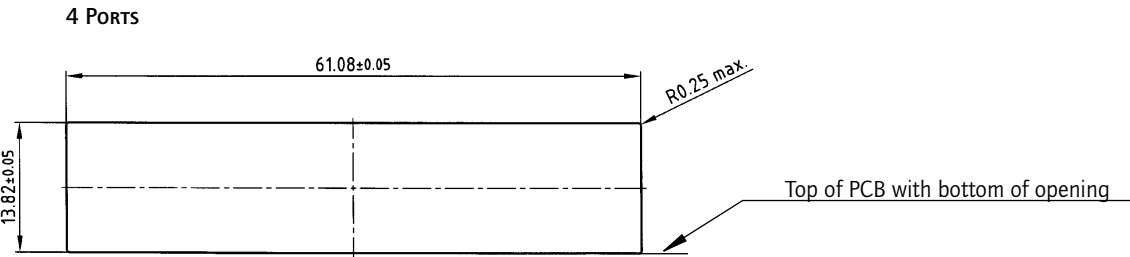
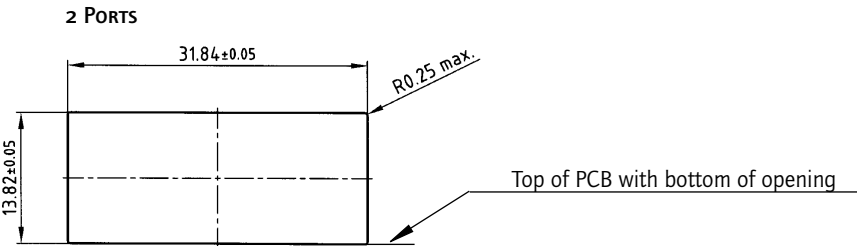
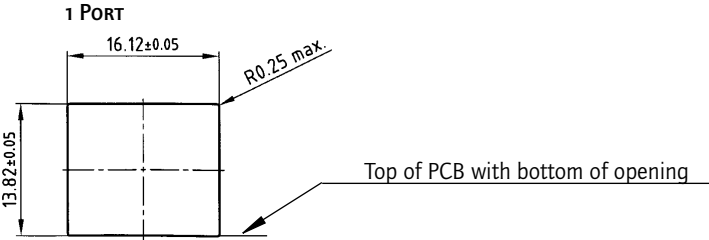
Schematic of magnetic Circuit with Tx/Rx = 1:1/1:1 or Tx/Rx = 1:1.414/1:1 - Turns Ratio, additional shount Chok, 4x0,75Ω Terminal Resistors - 1000pF/2kv Capacitor and LEDs (Optional)



Schematic of magnetic Circuit with Tx/Rx = 1:1/1:1 or Tx/Rx = 1:1.414/1:1 - Turns Ratio, additional 4x0,75Ω Terminal Resistors - 1000pF/2kv Capacitor and LEDs (Optional).



# RECOMMENDED PANEL CUT-OUT



Technical drawing of a mechanical part, likely a bracket or plate, showing dimensions in millimeters. The drawing includes a top view and a side view.

**Top View Dimensions:**

- Overall width: 157
- Overall height: 24.9
- Top horizontal distance from left edge to centerline: 15
- Top horizontal distance from centerline to right edge: 15.5
- Top horizontal distance from left edge to first hole center: 9.42±0.1
- Top horizontal distance from first hole center to second hole center: 12.88±0.1
- Top horizontal distance from second hole center to right edge: 2.54±0.1
- Top horizontal distance from left edge to first hole center: 3.71±0.1
- Top horizontal distance from first hole center to second hole center: 11.4±0.1
- Top horizontal distance from second hole center to right edge: 2.54±0.1
- Top horizontal distance from left edge to first hole center: 4.38±0.1
- Top horizontal distance from first hole center to second hole center: 6.92
- Top horizontal distance from second hole center to right edge: 0.89±0.2
- Top horizontal distance from left edge to first hole center: 0.89±0.2 (8x)
- Top horizontal distance from first hole center to second hole center: 1.27±0.1
- Top horizontal distance from second hole center to right edge: 0.48
- Top horizontal distance from left edge to first hole center: 8.89±0.1
- Top horizontal distance from first hole center to second hole center: 2.54±0.1
- Top horizontal distance from second hole center to right edge: 2.54±0.1

**Side View Dimensions:**

- Overall height: 157
- Overall width: 24.9
- Side horizontal distance from left edge to centerline: 15
- Side horizontal distance from centerline to right edge: 15.5
- Side horizontal distance from left edge to first hole center: 9.42±0.1
- Side horizontal distance from first hole center to second hole center: 12.88±0.1
- Side horizontal distance from second hole center to right edge: 2.54±0.1
- Side horizontal distance from left edge to first hole center: 3.71±0.1
- Side horizontal distance from first hole center to second hole center: 11.4±0.1
- Side horizontal distance from second hole center to right edge: 2.54±0.1
- Side horizontal distance from left edge to first hole center: 4.38±0.1
- Side horizontal distance from first hole center to second hole center: 6.92
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- Side horizontal distance from left edge to first hole center: 0.89±0.2 (8x)
- Side horizontal distance from first hole center to second hole center: 1.27±0.1
- Side horizontal distance from second hole center to right edge: 0.48
- Side horizontal distance from left edge to first hole center: 8.89±0.1
- Side horizontal distance from first hole center to second hole center: 2.54±0.1
- Side horizontal distance from second hole center to right edge: 2.54±0.1

The plan view shows a rectangular bridge deck with overall dimensions of 89.7m by 24.9m. The width is divided into sections of 2.54±0.1m, 1.72±0.1m, 1.72±0.1m, and 2.54±0.1m. The length is divided into sections of 86.00m and 84.38±0.1m. Reinforcement bars are shown as circles with crosses, labeled L1-HP-4, L2-HP-4, L3-HP-4, L4-HP-4, L5-HP-4, L6-HP-4, L7-HP-4, and L8-HP-4. Dimensions for bar placement include 7.82±0.1m, 5.72±0.1m, 1.27±0.1m, 2.54±0.1m, 8.89±0.1m, and 29.24m. A total length dimension of 81.94m is also indicated.

Technical drawing of a mechanical part showing dimensions and tolerances. The drawing includes various measurements such as 3122, 2752±0.1, 259±0.1, 254±0.1, 172±0.1, 782±0.1, 127±0.1, 889±0.1, 235±0.1, 254±0.1, 0.47, 0.89±0.2, 157 [3x], 3.6±0.1, 24.9, 9.2, 6.92, 1133±0.1, 3.16±0.1, 0.89±0.2 (16x), 8.89±0.1, 1.72±0.1, 7.82±0.1, 2.54±0.1, 1.27±0.1, 0.89±0.2, 157 [3x], 3.6±0.1, 24.9, 9.2, 6.92, 1133±0.1, 3.16±0.1, 0.89±0.2 (16x), 8.89±0.1, 235±0.1, 254±0.1, 0.47.

Technical drawing of a bridge deck cross-section. The drawing shows a symmetrical structure with a central span and side spans. Key dimensions include a total width of 118.94, a central span width of 115.24±0.1, and a side span width of 113.62±0.1. The deck is supported by piers with a width of 2.54±0.1. The deck thickness is 0.89±0.2, and the total height is 3.25±0.1. Reinforcement details are shown with circles and dots, indicating the placement of reinforcement bars. The drawing also shows the location of the centerline and the edge of the deck.

[illegible]



# SOLDER PROFILE

| Connector Type                        | Preheating       |          | Solder terminal dipping parameters |                              |
|---------------------------------------|------------------|----------|------------------------------------|------------------------------|
|                                       | max. Temperature | Duration | max. Solder bath Temperature       | max. Terminal Immersion Time |
| Filter D-SUB                          | 100°C            | 30s      | 260°C                              | 5s                           |
| Combo D-SUB Filter                    | 120°C            | 120s     | 260°C                              | 5s                           |
| Filter D-SUB Water Resistant          | 100°C            | 30s      | 240°C                              | 5s                           |
| Combo D-SUB Water Resistant           | 120°C            | 120s     | 240°C                              | 5s                           |
| D-SUB Water Resistant                 | 120°C            | 120s     | 240°C                              | 5s                           |
| D-SUB Solid Body Type Water Resistant | 150°C            | 180s     | 265°C                              | 8s                           |
| RJ45 Modular Jack Filtered            | 150°C            | 180s     | 265°C                              | 8s                           |
| Filter Plates                         | 150°C            | 180s     | 265°C                              | 8s                           |

Recommended wave-solder parameters for CONEC connectors.