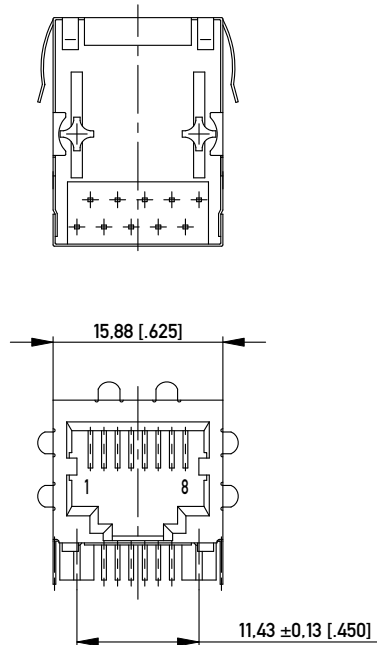
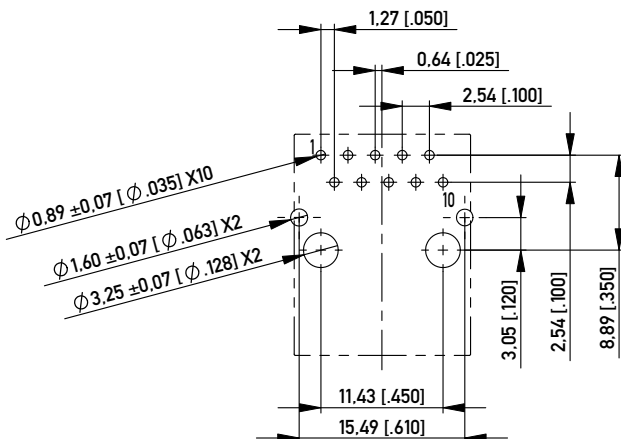
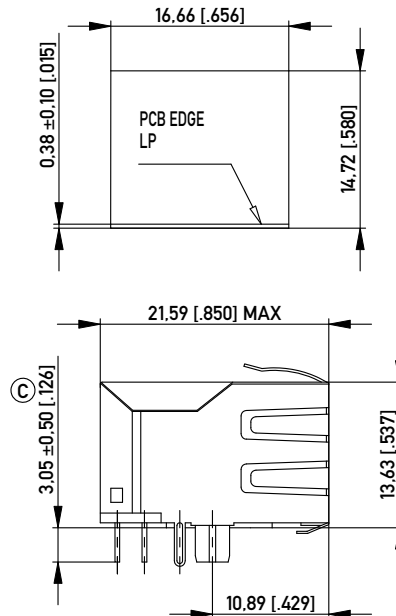




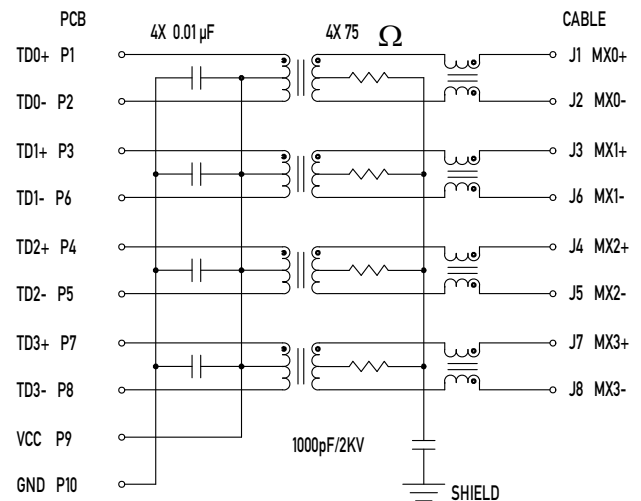
RECOMMENDED PCB LAYOUT (COMPONENT SIDE VIEW)  
EMPFOHLENES LEITERPLATTEN-LAYOUT (BESTÜCKUNGSSEITE)  
TOL ±0.05 [ .002] UNLESS NOTED



RECOMMENDED PANEL CUTOUT  
EMPFOHLENER FRONTPLATTEN AUSSCHNITT



ELECTRICAL SCHEMATICS 1000 BASE T - M5B02  
ELEKTRISCHER SCHALTPLAN



MAGNETICS SPECIFICATIONS @ 25°C

|                           |             |
|---------------------------|-------------|
| Turns Ratio:              | 1CT:1CT ±3% |
| OCL(100 KHz, 0.1 V, 8 mA) | 350 µH MIN  |
| Insertion Loss:           |             |
| 1-100 MHz                 | -1.1 dB MAX |
| Return Loss:              |             |
| 1-40 MHz                  | -18 dB MIN  |
| 60 MHz                    | -14 dB MIN  |
| 80 MHz                    | -12 dB MIN  |
| 100 MHz                   | -10 dB MIN  |
| Crosstalk:                |             |
| 1-100 MHz                 | -35 dB TYP  |
| CMR:                      |             |
| 0.1 - 30 MHz              | -50 dB TYP  |
| 30 - 60 MHz               | -40 dB TYP  |
| 60 - 100 MHz              | -35 dB TYP  |
| Isolation                 | 1500 Vrms   |

#### MATERIALS AND FINISH

HOUSING: GLASS FILLED POLYESTER UL 94 V-0 BLACK

SHIELDING: Cu ALLOY, PLATED WITH Ni

CONTACTS: PHOSPHOR BRONZE

CONTACT FINISH: Au, 0.8µm [30µin], OVER Ni

TERMINAL FINISH: Sn MATTE (C)

#### MECHANICAL CHARACTERISTICS

DURABILITY: 1000 MATING CYCLES

#### ELECTRICAL CHARACTERISTICS

CONTACT RESISTANCE: 30 MILLIOHMS MAX

OPERATING TEMPERATURE: 0°C TO 70°C

NOTE 1: SIDE SHIELD TABS IN REAR 3.05mm (R)

NOTE 2: PANEL GROUND FLANGES BOTH SIDES AND TOP (GF5)

|                                                                                                                                                                             |  |            |  |                                                                                  |  |                                                                                                                  |  |                                                                            |  |    |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|------------|--|----------------------------------------------------------------------------------|--|------------------------------------------------------------------------------------------------------------------|--|----------------------------------------------------------------------------|--|----|--|
| Information:<br>SCHEMATIC NUMBER: M5B02                                                                                                                                     |  |            |  | Tolerances                                                                       |  | <br>All Dimensions<br>in mm |  | Scale 2:1                                                                  |  |    |  |
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|                                                                                                                                                                             |  |            |  |                                                                                  |  |                                                                                                                  |  |                                                                            |  |    |  |
|                                                                                                                                                                             |  |            |  | ERNI                                                                             |  | www.ERNI.com                                                                                                     |  | 203217                                                                     |  |    |  |
| C                                                                                                                                                                           |  | 02.06.2008 |  |                                                                                  |  | Class MJIM                                                                                                       |  |                                                                            |  | A3 |  |
| Index                                                                                                                                                                       |  | Date       |  |                                                                                  |  |                                                                                                                  |  |                                                                            |  |    |  |

Consider protection marks from DIN 46

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