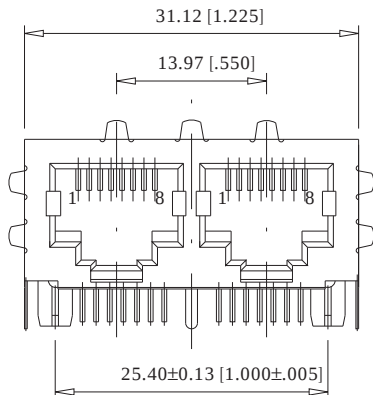
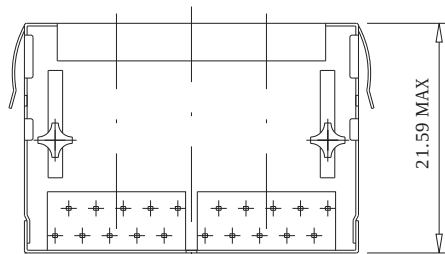
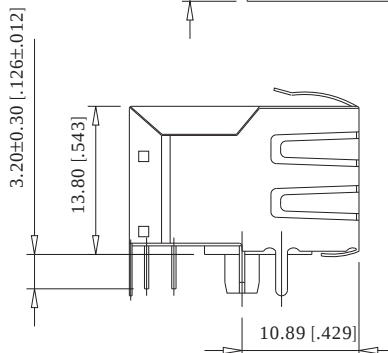
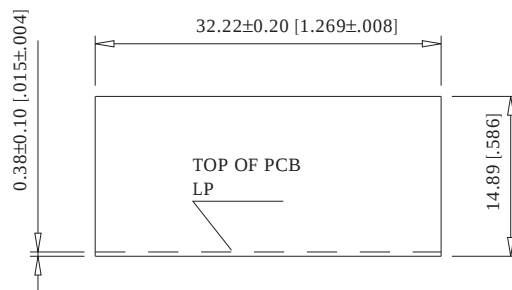
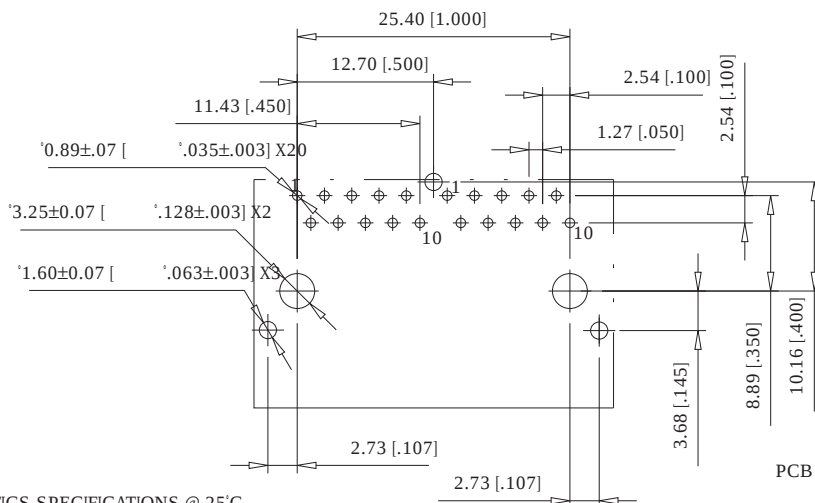




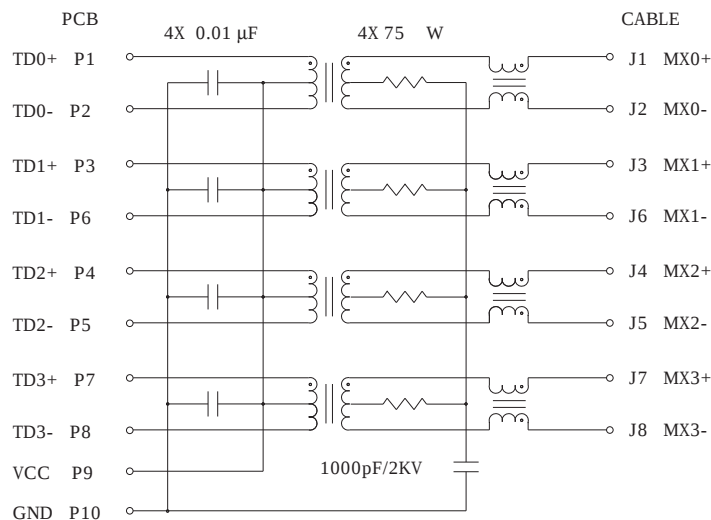
RECOMMENDED PANEL
CUTOUT
EMPFOHLENER FRONTPLATTEN AUSSCHNITT



RECOMMENDED PCB LAYOUT - COMPONENT SIDE VIEW
EMPFOHLENER FUER LEITERPLATTE - BESTUCKUNGSSEITE
ALL TOLERANCES ±0.05 UNLESS NOTED



ELECTRICAL SCHEMATICS 1000 BASE T - M5B01
ELEKTRISCHES DIAGRAMM



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

NOTE 1. SIDE SHIELD TABS IN FRONT 3.68mm (F2)

NOTE 2. ONE REAR SHIELD TAB CENTERED

NOTE 3. PANEL GROUND FLANGES BOTH SIDES, BOTTOM AND TOP (GF5)

MATERIALS AND FINISH

HOUSING: GLASS FILLED POLYESTER UL 94 V-0 BLACK
SHIELDING: Cu ALLOY, PLATED WITH Ni
CONTACTS: PHOSPHOR BRONZE
CONTACT FINISH: Au, 0.8 µm (30 µin) OVER Ni
TERMINAL FINISH: SnPb

MECHANICAL CHARACTERISTICS

DURABILITY: 1000 MATING CYCLES

ELECTRICAL CHARACTERISTICS

CONTACT RESISTANCE: 30 MILLIOHMS MAX
OPERATING TEMPERATURE: 0°C TO 70°C

Drawing NO.		Tolerances		Scale 2:1		-	
SCHEMATIC NUMBER: M5B01		All Dimensions in mm		Material		-	
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						8C10T, 1X2, INTEGRATED MAGNETICS	
b		01MAR04		www.ERNI.com		203184	
Change No.		Date		Name		Group/Type	
				Plot At		MAXMJ	

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