

- Note 1: Modular Jack with 1000Base-T magnetics, compliant to IEEE 802.3ab standards; optimized for use with voltage driven Gigabit PHY (i.e. VITESSE)
- Note 2: RoHs compliant
- Note 3: Compatible to lead-free wave soldering process
- Note 4: Side ground tab rear of PEG 3.05 mm (R)
- Note 5: Panel ground flanges both sides, bottom and top (GF5)

**MATERIALS AND FINISH**

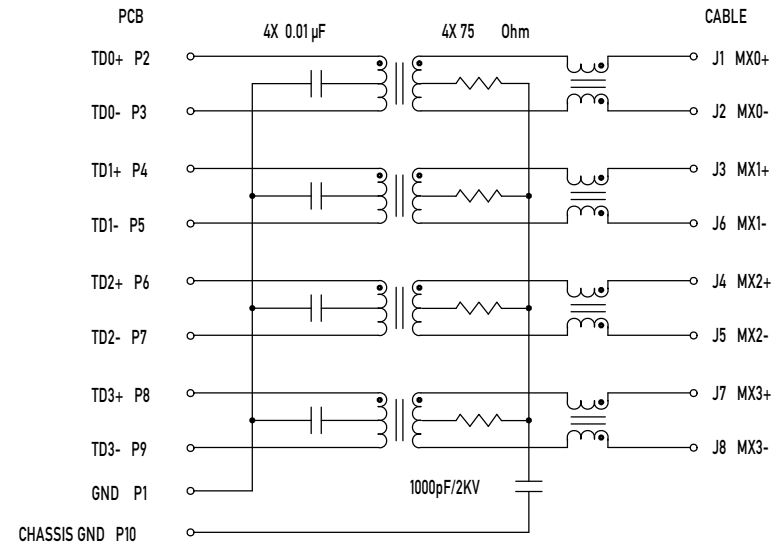
HOUSING: GLASS FILLED POLYESTER UL 94 V-0 BLACK  
 SHIELDING: Cu ALLOY, PLATED WITH Ni  
 CONTACTS: PHOSPHOR BRONZE  
 CONTACT FINISH: Au, 0.8 µm (30 µin) OVER Ni  
 TERMINAL FINISH: Sn matte  
 LED LENS: EPOXY  
 OPERATING TEMPERATURE: 0°C TO 70°C

NO. IDENT. NR.	LED 2 LEFT LED 2 LINKS	LED 1 RIGHT LED 1 RECHTS	LED CODE
203386	GREEN	YELLOW	L2
203374	GREEN	GREEN	L3
203527	Orange/Green	Orange/Green	L9

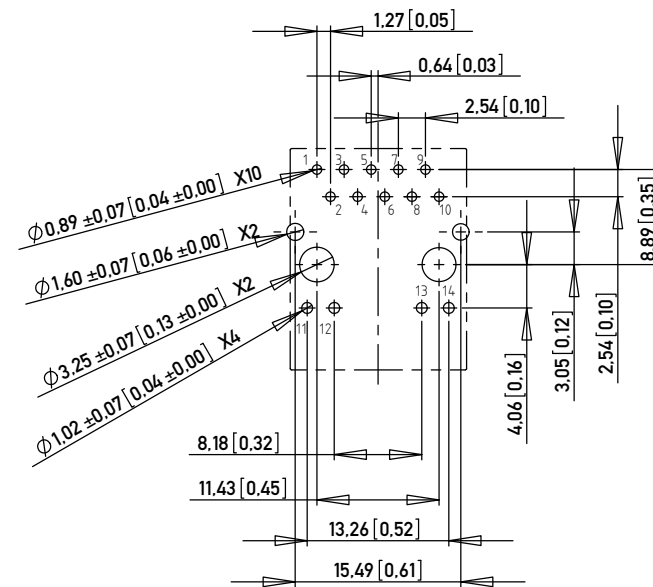
Information:		Tolerances ±0.2 mm (±0.008 inch) if not specified		Scale 2:1
SCHEMATIC NUMBER: M5E03		Designation <b>MOD-JACK-MJIM</b> <b>8C10T.1x1.INT.MAG.,LED ALIGNED</b>		
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		www.ERNI.com		203385
c	28.06.2013			1 (1/2)
Index	Date			A3
				Class MJIM

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ELECTRICAL SCHEMATICS 1000 BASE T - M5E03  
ELEKTRISCHES DIAGRAMM



RECOMMENDED PCB LAYOUT (COMPONENT SIDE VIEW)  
EMPFOHLENER FUER LEITERPLATTE (BESTUECKUNGSSEITE)  
TOL ±0.05 [0.02] UNLESS NOTED



LED SPECIFICATIONS

COLOR FARBE	V <sub>f</sub> TYP	V <sub>f</sub> MAX	I <sub>f</sub> mA	CIRCUIT DIAGRAM SCHALTSKIZZE
YELLOW	2.1	2.5	20	
GREEN	2.2	2.5	20	
ORANGE/GREEN	2.05/2.2	2.5	20	

DESIGNED FOR IEEE802.3ab GIGABIT APPLICATION  
OPTIMIZED FOR VOLTAGE DRIVEN OUTPUTS

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

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www.ERNI.com		<b>203385</b>		1 (2/2) <b>A3</b>
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