21.59 [.850] MAX

59.09 [2.326]

3 x 13.97 [.550] = (41.91 [1.650])

1 8 1 8 1 8 1 8

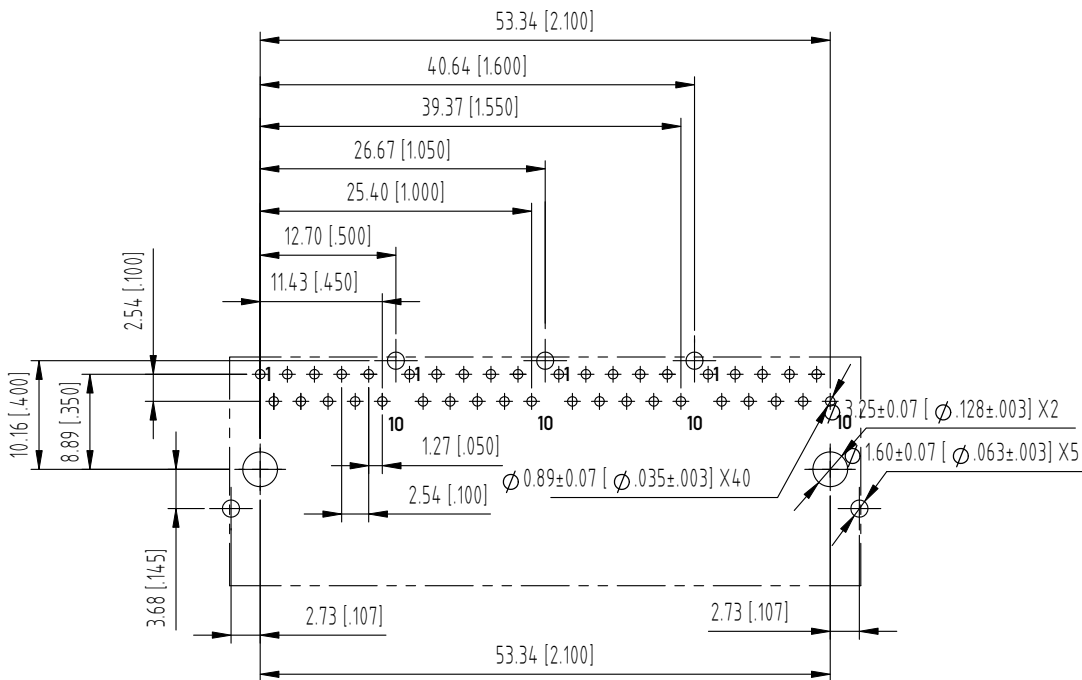53.34±0.13 [2.100±.005]

3.05±0.50 [.120±.020]

13.80 [.543]

10.89 [.429]

RECOMMENDED PCB LAYOUT - COMPONENT SIDE VIEW
EMPFOHLENER FUER LEITERPLATTE - BESTUCKUNGSSEITE
ALL TOLERANCES ±0.05 [.002] UNLESS NOTED

53.34 [2.100]

40.64 [1.600]

39.37 [1.550]

26.67 [1.050]

25.40 [1.000]

12.70 [.500]

11.43 [.450]

2.54 [.100]

10.16 [.400]

8.89 [.350]

1 10 1 10 1 10 1 10

1.27 [.050]

2.54 [.100]

$\emptyset$ 0.89±0.07 [$\emptyset$ .035±.003] X40

$\emptyset$ 3.25±0.07 [$\emptyset$ .128±.003] X2

$\emptyset$ 1.60±0.07 [$\emptyset$ .063±.003] X5

3.68 [.145]

2.73 [.107]

2.73 [.107]

53.34 [2.100]

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

NOTE 2: REAR SHIELD TABS BETWEEN EACH PORT (T)
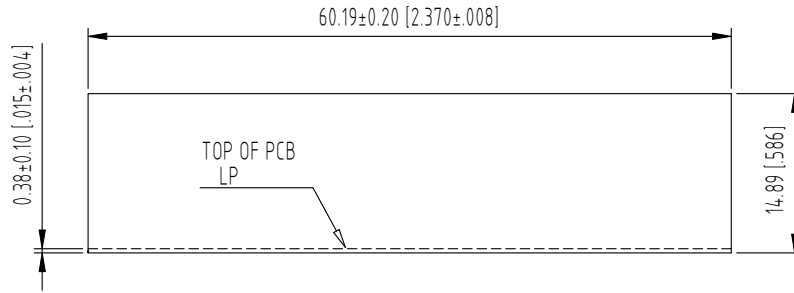
NOTE 3: PANEL GROUND FLANGES BOTH SIDES AND TOP (GF5)

MATERIALS AND FINISH

HOUSING: GLASS FILLED POLYESTER UL 94 V-0 BLACK

SHIELDING: Cu ALLOY, PLATED WITH Ni

CONTACTS: PHOSPHOR BRONZE

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

TERMINAL FINISH: SOLDER

MECHANICAL CHARACTERISTICS

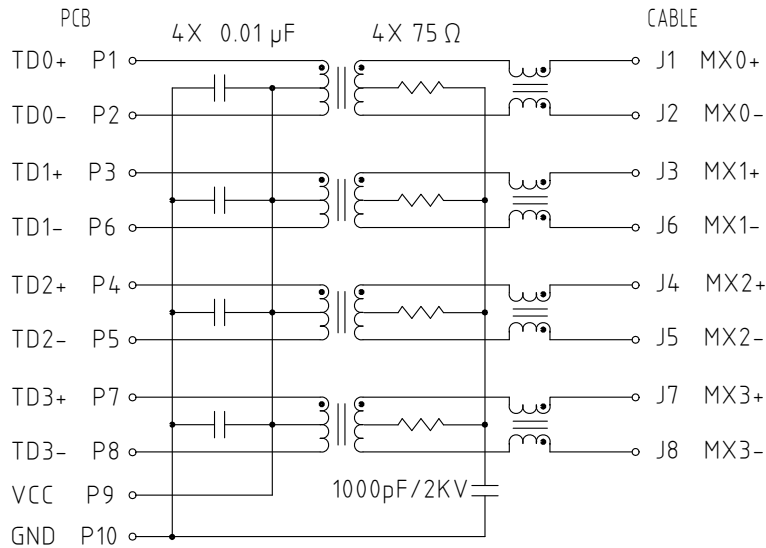DURABILITY: 1000 MATING CYCLES

OPERATING TERMPERATURE: 0°C TO 70°C

Information:

Tolerances

All Dimensions
in mm

Subject to modification without
prior notice.
Drawing will not be updated.

Scale 2:1

Designation

MOD JACK – MJIM
8C10T, 1X4, INTEGRATED MAGNETICS

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203185

I (1/2)

A3

C 23 JUL 04

Class MAXMJ

RECOMMENDED PANEL CUTOUT
EMPFOHLENER FRONTPLATTEN AUSSCHNITT

60.19±0.20 [2.370±.008]

0.38±0.10 [.015±.004]

14.89 [.586]

TOP OF PCB
LP

ELECTRICAL SCHEMATICS 1000 BASE T – M5B01
ELEKTRISCHES DIAGRAMM

PCB

4X 0.01 µF

4X 75 Ω

CABLE

TD0+ P1		J1 MX0+
TD0− P2		J2 MX0−
TD1+ P3		J3 MX1+
TD1− P6		J6 MX1−
TD2+ P4		J4 MX2+
TD2− P5		J5 MX2−
TD3+ P7		J7 MX3+
TD3− P8		J8 MX3−
VCC P9	1000pF/2KV	
GND P10		

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

Tolerances

All Dimensions in mm

Scale 2:1

−
−

Designation

MOD JACK – MJIM
8C10T, 1X4, INTEGRATED MAGNETICS

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