EDAC
YOUR CONNECTION TO QUALITY & SERVICE

EDAC INC
TORONTO, ONTARIO
CANADA

RJ45 MAGNETIC JACK WITHOUT LED, 8P, 8C SHIELDED/10/100 Mbps FILTER

ACAD REFERENCE NO.: A63-113-300P422
DRAWN: R.STA.MONICA   DATE: NOV.19/2010
CHECKED: DATE:

PART NUMBER
SEE NOTE

DRAWING NUMBER
A63-112-300P422

SHEET 1 OF 2
ISSUE 2

21.35±0.25 [0.841±0.010]

15.9 [0.626]

11.43±0.25 [0.450±0.010]

RECOMMENDED
PANEL CUTOUT DIMENSION

16.65 [0.656]

14.25 [0.561]

13.5 [0.531]

2.54 [0.100]
3.05 [0.120]
8.89 [0.350]
10.75±0.25 [0.423±0.010]
3.5 [0.138]

NOTES:
1. MATERIALS:
HOUSING: THERMOPLASTIC, UL 94V-0, COLOR: BLACK
SHIELD: COPPER ALLOY WITH NICKEL PLATING
CONTACTS: COPPER ALLOY PLATED WITH GOLD PLATING AND TIN IN SOLDER AREA

PART NO	GOLD PLATING THICKNESS
A63-112-300P422	GOLD FLASH PLATING
A63-113-300P422	15 MICRO INCHES OF GOLD
A63-114-300P422	30 MICRO INCHES OF GOLD

2. OPERATING TEMPERATURE: 0°C TO +70°C
3. STORAGE TEMPERATURE: -40°C TO +85°C
4. MATE WITH MODULAR PLUG CONFORMING TO FCC PART 68, SUBPART F.
5. RECOMMENDED TEMPERATURE FOR WAVE SOLDERING IS 260°C MAX, 10 SEC MAX
6. DIMENSION: MM [INCHES]

RECOMMENDED P.C.B. LAYOUT
TOLERANCE: ±0.08[±0.003]

8.89 [0.350]
3.05 [0.120]
2-Ø1.60 [Ø0.063]
1.27 [0.050]
15.50 [0.610]
11.43 [0.450]
8.89 [0.350]
2.54 [0.100]
2-Ø3.20 [Ø0.126]
8-Ø0.90 [Ø0.035]

P1, P2, P7, P8

TOLERANCE UNLESS OTHERWISE
SPECIFIED IN MM:

0	± 0.38
0.0	± 0.25
0.00	± 0.10
ANGLE	x°

THIS IS A C.A.D. GENERATED DRAWING
DO NOT MAKE MANUAL REVISIONS TO MASTER.

UPDATE DRAWING
R.STA.MONICA   SEPT.23/2011

ISSUE NUMBER
ORIGINAL ①
②

ELECTRICAL CIRCUIT:

CONNECTOR SOLDER SIDE

RJ45 CONTACT SIDE

P1
P4
P2
P3
P5
P6
P8

1CT : 1CT
TRANSMIT

1CT : 1CT
RECEIVE

75 OHM
75 OHM
75 OHM
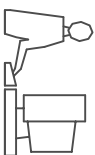75 OHM

1000 pF
2 Kv

J1
J4
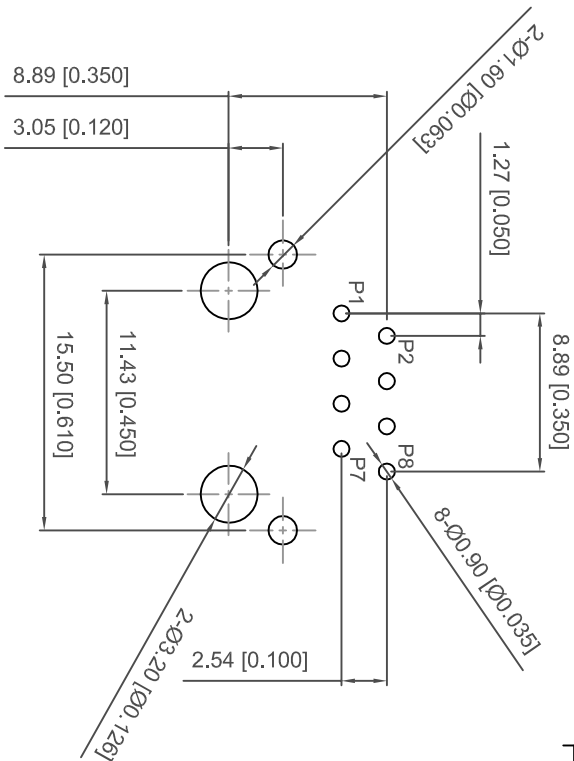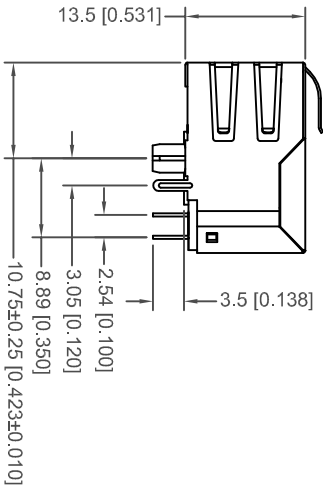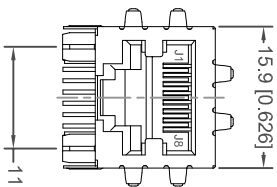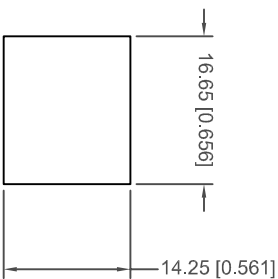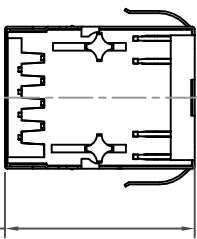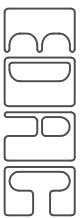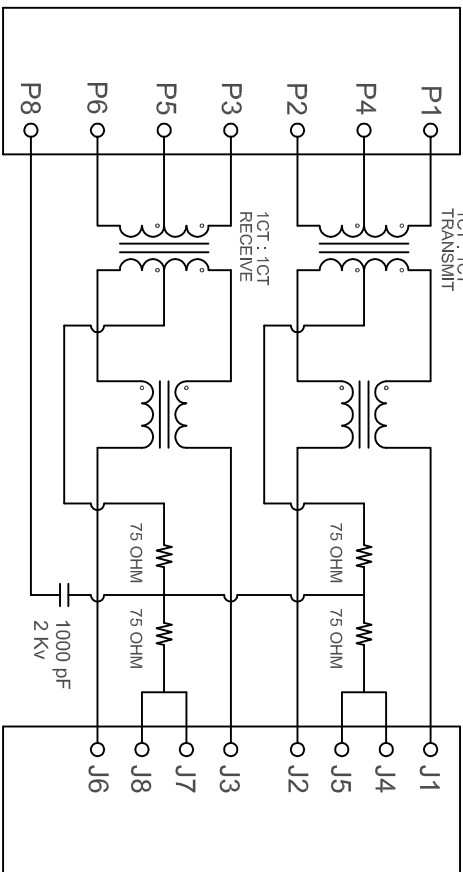J5
J2
J3
J7
J8
J6

TOLERANCE UNLESS OTHERWISE
SPECIFIED IN MM:
0   ± 0.38   ANGLE
0.0   ± 0.25   x°
0.00   ± 0.10

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TEST NOTES:(25±5°C)
1.TR:(100KHz,0.1V);
PINS:(P1-P2);(J1-J2)=1:1±3%
PINS:(P3-P6);(J3-J6)=1:1±3%
2.LX:(100kHz,100mV,8mA, DC Bias)
PINS: (P1,P2),(P3,P6)=350uH MINIMUM
3.DC RESISTANCE:
PINS:(J1-J2),(J3-J6)= 1.2 OHMS MAXIMUM
4.HIPOT:
PINS:(P1,P2)TO(J1,J2)=1500VAC OR 2250VDC
PINS:(P3,P6)TO(J3,J6)=1500VAC OR 2250VDC
5.INSERTION LOSS:
-1.2dB MAXIMUM AT 100KHz TO 100MHz;
6.RETURN LOSS:
-18dB MINIMUM AT 1MHz TO 30MHz;
-(18-20log(f/30)]dB MINIMUM AT 30MHz TO 60MHz
-12dB MINIMUM AT 60MHz TO 80MHz
7.CROSS TALK:
-35dB TYPICAL AT 1MHz TO 100MHz
8.COMMON TO COMMON MODE ATENUATION:
-30dB TYPICAL AT 30MHz TO 100MHz
9. LEAKAGE INDUCTANCE:
PINS: P1-P2, WITH J1-J2 SHORTED=0.35 uH MAX @1MHz
PINS: P3-P6, WITH J3-J6 SHORTED=0.35 uH MAX @1MHz
10. INTERWINDING CAPACITANCE:
PINS:(P1-P2);(J1-J2)= 35 pF MAX @1MHz
PINS:(P3-P6);(J3-J6)= 35 pF MAX @1MHz

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