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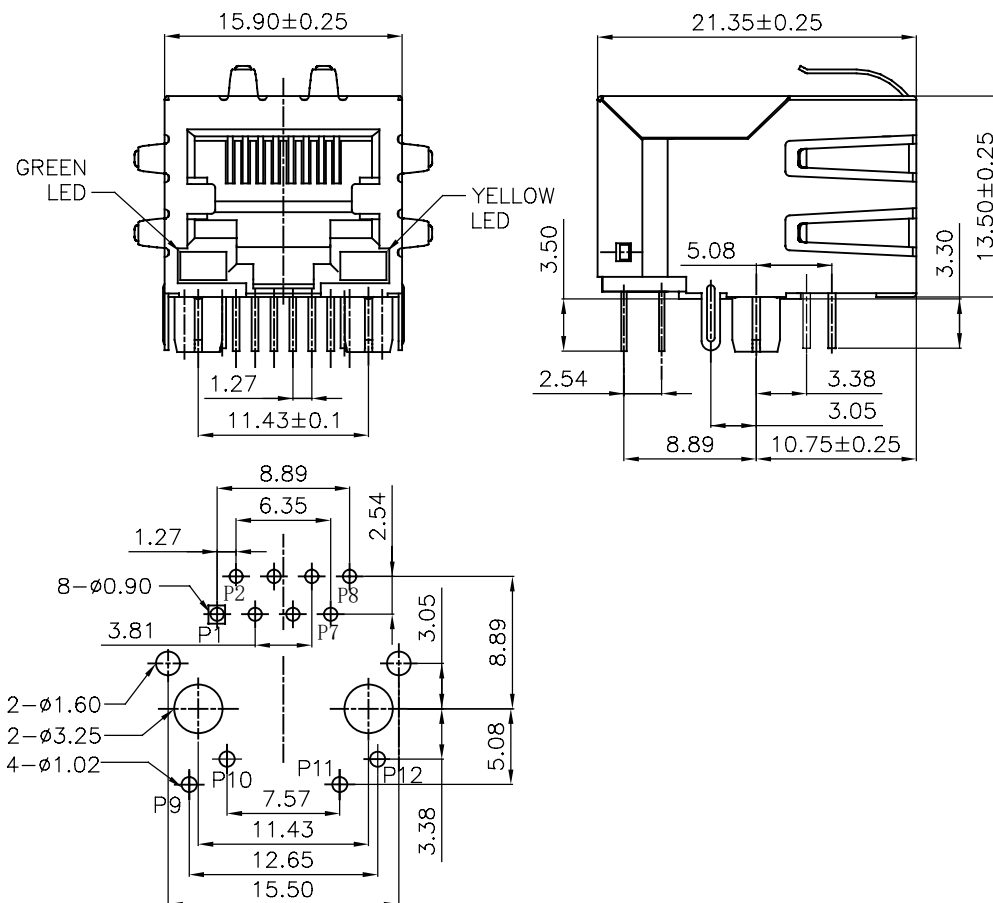
ISSUE NUMBER

ORIGINAL

①

ADD PACKAGING PAGE  
P.M. MAY,18/2024

②



#### NOTES:

- CONNECTOR MATERIAL:  
HOUSING:THERMOPLASTIC, UL94V-0  
CONTACT/SHIELD: COPPER ALLOY  
SHIELD PLATING: NICKEL OR TIN  
CONTACT PLATING: SELECTIVE GOLD PLATING IN CONTACT AREA

#### GOLD PLATING

GOLD FLASH  
15u" OF GOLD  
30u" OF GOLD  
50u" OF GOLD

#### PART NUMBER

A40-108-263-131  
A40-108-363-131  
A40-108-663-131  
A40-108-963-131

- WAVE SOLDERING AT 260 °C MAX, 10 SECS MAX
- OPERATING TEMPERATURE: T=0 °C TO +70°C
- STORAGE TEMPERATURE: T=-25°C TO T=+85°C
- ALL TOLERANCES NOT OTHERWISE SPECIFIED TO BE ±0.25MM

P.C.B RECOMMENDED HOLE LAYOUT

## SINGLE PORT, RJ45 MAGNETIC JACK, R/ANGLE 10/100BT, WITH LED, WITH TRANSFORMER



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EDAC INC  
TORONTO, ONTARIO  
CANADA

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ACAD REFERENCE NO.: A40-108-263-131

DRAWN: R.STA.MONICA

DATE: APR.27/2011

CHECKED:

DATE:

SCALE: NOT TO SCALE

SHEET 1 OF 3

DRAWING NUMBER

A40-108-263-131

ISSUE

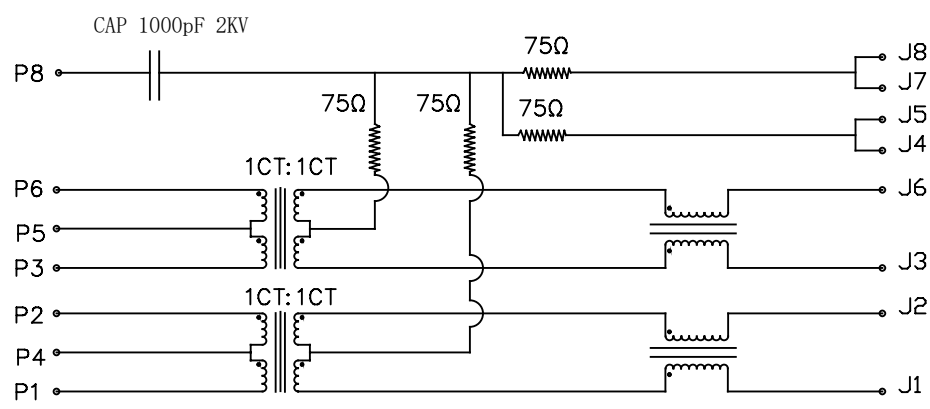
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ELECTRICAL SPECIFICATIONS:

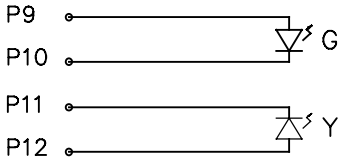
1. TURN RATIO: (P1~P2):(J1~J2) :1:1±3%  
(P3~P6):(J3~J6) :1:1±3%
2. INDUCTANCE: (P1~P2) : 350uH MIN @ 0.1V,100KHZ, 8mA DC BIAS  
(P3~P6) : 350uH MIN @ 0.1V,100KHZ, 8mA DC BIAS
3. LEAKAGE INDUCTANCE:  
(P1~P2): (WITH J1 AND J2 SHORT) :0.35uH MAX @ 1MHZ  
(P3~P6): (WITH J3 AND J6 SHORT) :0.35uH MAX @ 1MHZ
4. INTERWINDING CAPACITANCE: (P1~P2):(J1~J2) :35pF MAX @ 1MHZ  
(P3~P6):(J3~J6) :35pF MAX @ 1MHZ
5. DC RESISTANCE:(J1~J2):(J3~J6) :1.2 OHMS MAX
6. RETURN LOSS:  
1MHZ TO 30MHZ :-18dB MIN  
30MHZ TO 60MHZ :-(18-20Log(f/30))dB MIN  
(WHERE f IS IN MHZ)  
60MHZ TO 80MHZ :-12dB MIN
7. DIELECTRIC WITHSTAND: (P1~P2):(J1~J2) :1500VAC OR 2250VDC  
(P3~P6):(J3~J6) :1500VAC OR 2250VDC
8. INSERTION LOSS: 100KHZ TO 100MHZ :-1.2dB MAX
9. CROSS TALK: 1MHZ TO 100MHZ :-35dB TYP
10. COMMON TO COMMON MODE ATTENUATION: 30MHZ TO 100MHZ :-30dB TYP

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ELECTRICAL CIRCUIT:



LED CIRCUIT:



LED SPECIFICATION			
COLOR	WAVE LENGTH	Forward V(max)	Vf TYP
GREEN	565nm	2.4V AT 20mA	2.2V
YELLOW	590nm	2.5V AT 20mA	2.1V

SINGLE PORT, RJ45 MAGNETIC JACK, R/ANGLE  
10/100BT, WITH LED, WITH TRANSFORMER

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DRAWN: R.STA.MONICA    DATE: APR.27/2011

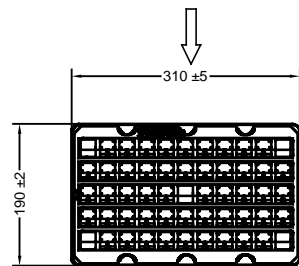
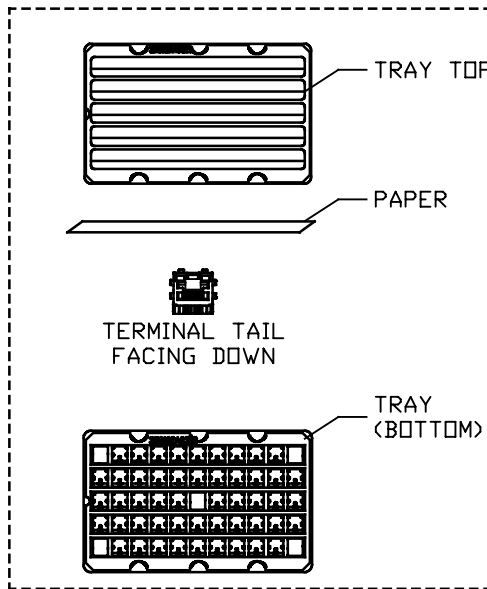
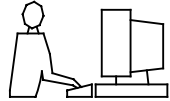
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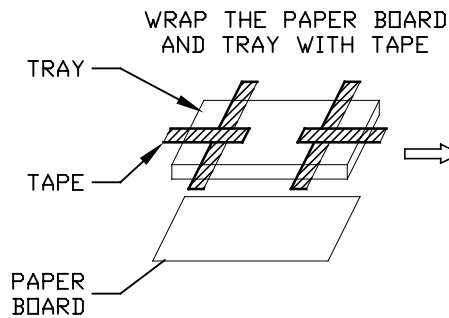
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A40-108-263-131

ISSUE  
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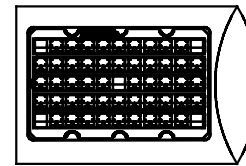
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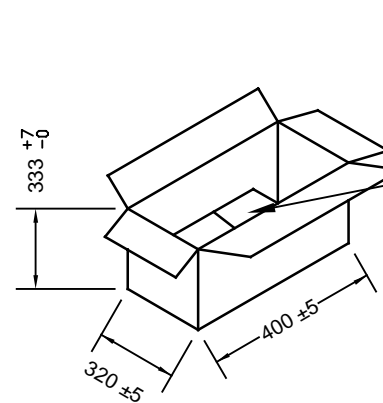
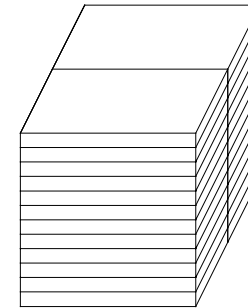
ASSEMBLE THE TOP  
AND BOTTOM



VACCUM 2 TRAYS  
IN A BAG



12 TRAYS PER STACK,  
2 STACK IN TOTAL



PUT 2 PAPER BOARDS IN THE BOX  
FOLLOWED BY 2 STACKS OF TRAYS THEN  
PLACE ANOTHER 2 PAPER BOARDS ON THE TOP

## SINGLE PORT, RJ45 MAGNETIC JACK, R/ANGLE 10/100BT, WITH LED, WITH TRANSFORMER



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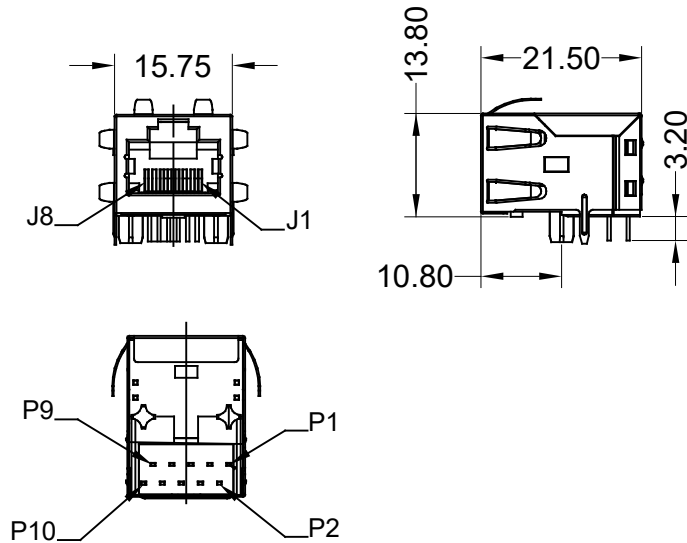
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SCALE: NOT TO SCALE SHEET 3 OF 3

DRAWING NUMBER  
**A40-108-263-131** ISSUE  
2

UNLESS OTHERWISE SPECIFIED, ALL  
TOLERANCES IS  $\pm 0.254$



#### SPECIFICATIONS:

##### 1. CONNECTOR MATERIAL:

HOUSING: THERMOPLASTIC BLACK UL94 V-0

SHIELD: BRASS

SHIELD PLATING: NICKEL

CONTACT: PHOSPHOR BRONZE

CONTACT PLATING: SELECTIVE GOLD, 6u" MIN  
IN CONTACT AREA

2. PIN NOT ELECTRICALLY CONNECTED MAYBE OMITTED  
SEE ELECTRICAL DRAWING FOR OMITTED PINS

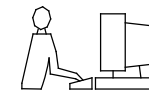
3. RJ45 CAVITIES CONFORM TO FCC RULES AND  
REGULATION PART 68.

4. THE PART IS RECOMMENDED FOR WAVE SOLDERING  
PROCESS PEAK SOLDERING TEMPERATURE IS 260°C MAX,  
10 SECS MAX

5. OPERATING TEMPERATURE T=0°C TO +70°C

6. STORAGE TEMPERATURE T= -40°C TO +85°C

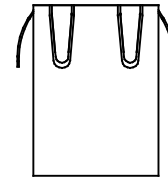
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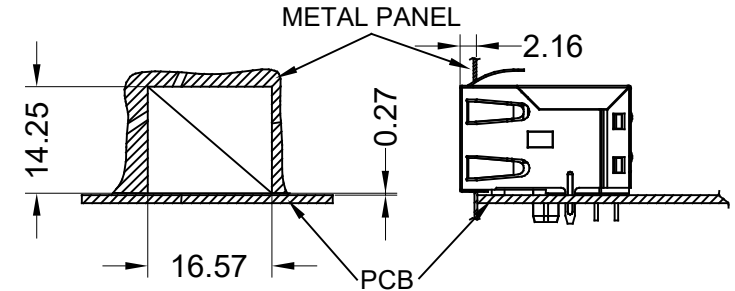
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P.M.	MAY, 18/2024

LABEL:

PLUG IN SIDE

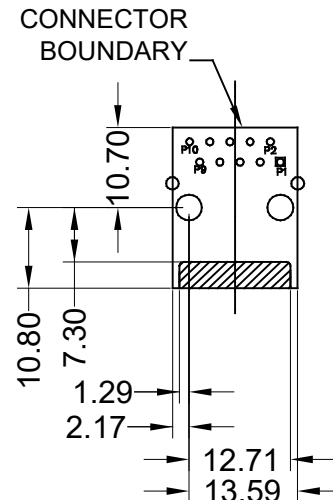


SUGGESTED PANEL OPENING



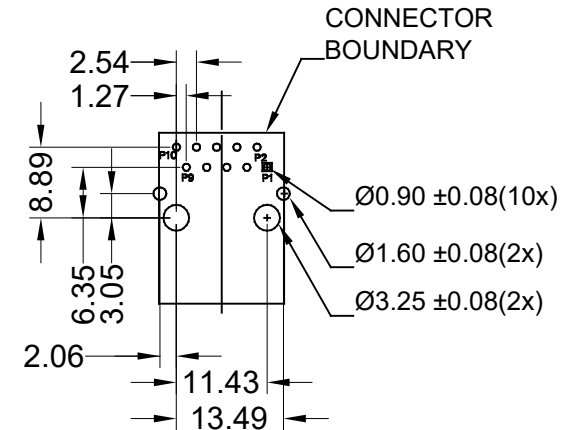
TOLERANCES IS  $\pm 0.10$

KEEP-OUT AREA  
(COMPONENT SIDE VIEW):



PLUG IN SIDE  
TOLERANCES IS  $\pm 0.10$

RECOMMENDED PWD LAYOUT  
(COMPONENT SIDE VIEW):



PLUG IN SIDE  
TOLERANCES IS  $\pm 0.10$



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RJ45 MAGNETIC JACK, SINGLE PORT,  
SHIELD WITH EMI, W/O LED



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ACAD REFERENCE NO.: A60-112-200P461

DRAWN: P.M. DATE: MAY, 05/2020

CHECKED: R.S.M. DATE: MAY, 05/2020

SCALE: N.T.S. SHEET 1 OF 3

DRAWING NUMBER: A60-112-200P461

PART NUMBER: A60-112-200P461

ISSUE

2

## ELECTRIC SPECIFICATIONS:

1- TURN RATIO @100KHz: (P2-P3):(J1-J2) = 1:1±5%

(P4-P5):(J3-J6) = 1:1±5%

(P6-P7):(J4-J5) = 1:1±5%

(P8-P9):(J7-J8) = 1:1±5%

2- PRIMARY INDUCTANCE: 350uH MIN @ 100KHZ,0.1V 8mA DC BIAS

3- DC RESISTANCE: 1.2Ω MAX

4- INSERTION LOSS: 1-100MHz -1.0dB MAX

100-125MHz -1.2dB MAX

5- RETURN LOSS: 1-40MHz -16dB MIN

40-60MHz -12dB MIN

60-80MHz -10dB MIN

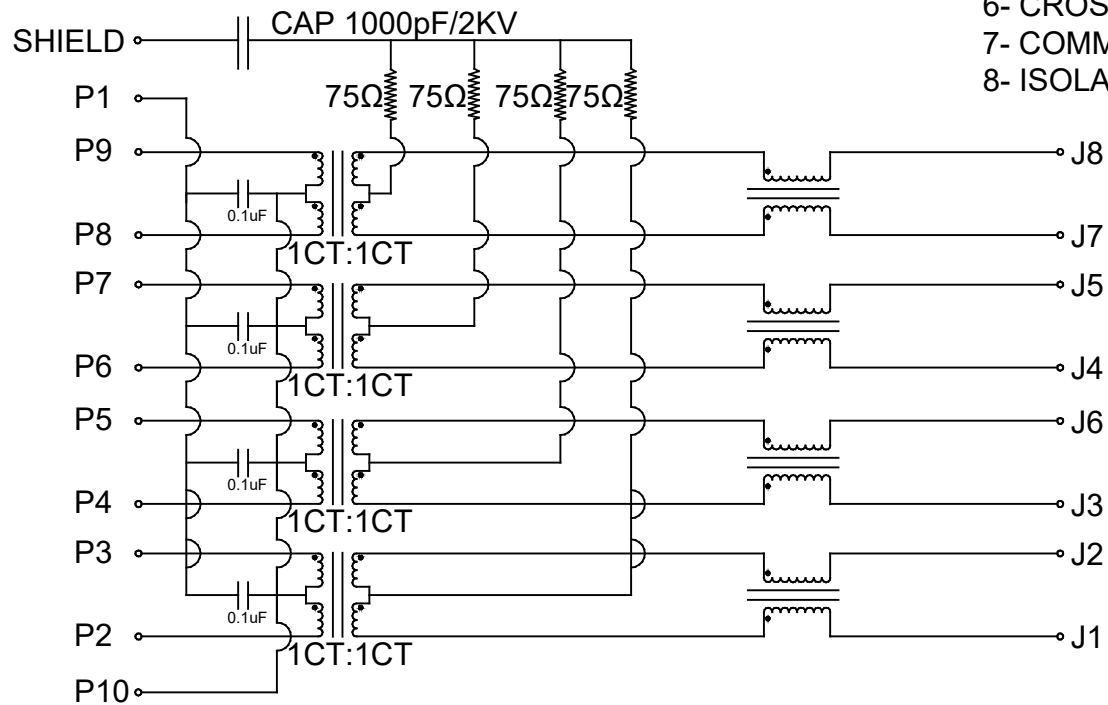
80-100MHz - 8dB MIN

6- CROSS TALK: 1-100MHz -30dB MIN

7- COMMON TO COMMON MODE ATTENUATION: 1-100MHz -30dB MIN

8- ISOLATION: PHY SIDE TO LINE SIDE: 2250VDC

## CIRCUIT SCHEMATIC:



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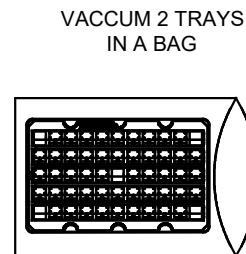
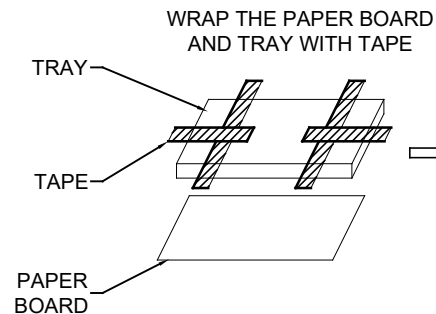
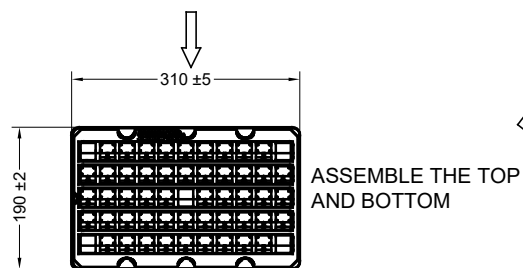
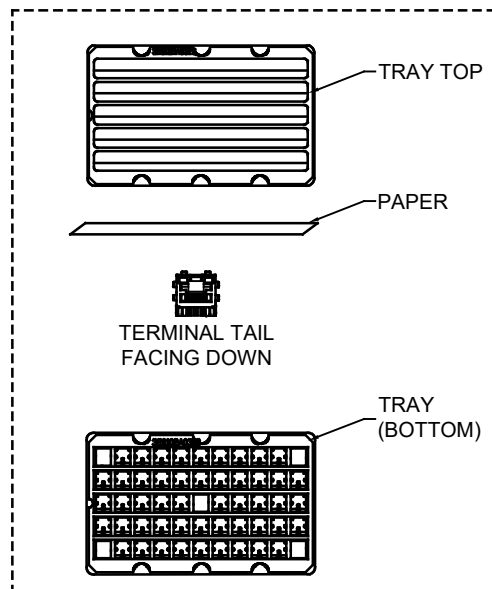
SHEET 2 OF 3

DRAWING NUMBER: A60-112-200P461

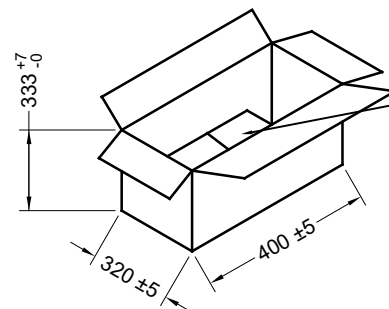
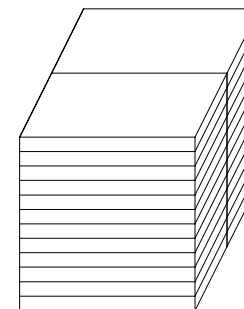
ISSUE

PART NUMBER: A60-112-200P461

2



12 TRAYS PER STACK,  
2 STACK IN TOTAL



PUT 2 PAPER BOARDS IN THE BOX  
FOLLOWED BY 2 STACKS OF TRAYS THEN  
PLACE ANOTHER 2 PAPER BOARDS ON THE TOP



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DRAWN: P.M.

DATE: MAY, 05/2020

CHECKED: R.S.M.

DATE: MAY, 05/2020

SCALE: N.T.S.

SHEET 3 OF 3

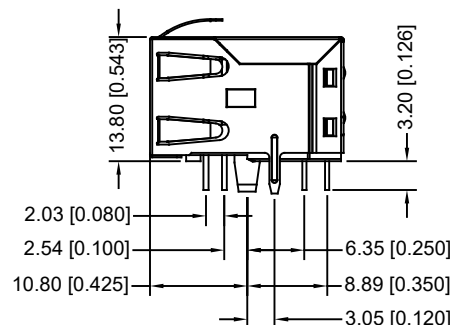
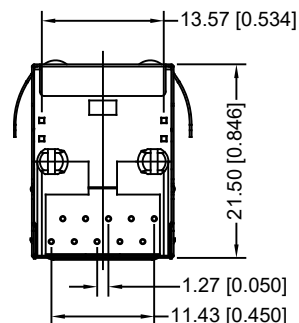
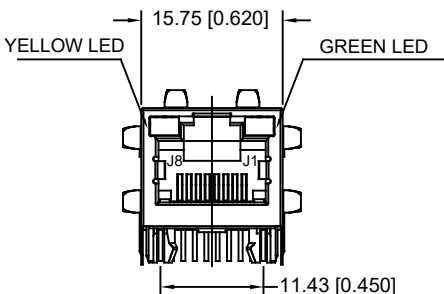
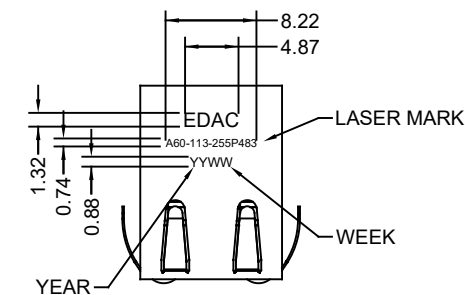
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PART NUMBER: A60-112-200P461

2

## RJ45 MAGNETIC JACK, SINGLE PORT, SHIELD WITH EMI, W/O LED



#### NOTES:

HOUSING: HIGH TEMPERATURE THERMOPLASTIC, UL 94V-0, COLOR: BLACK  
SHIELD: BRASS WITH NICKEL PLATING  
CONTACTS: PHOSPHOR BRONZE PLATED WITH GOLD PLATING AND TIN IN SOLDER AREA

PART N	GOLD PLATING THICKNESS
A60-112-255P483	GOLD FLASH PLATING
A60-113-255P483	15 MICRO INCHES OF GOLD
A60-114-255P483	30 MICRO INCHES OF GOLD
A60-115-255P483	50 MICRO INCHES OF GOLD

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

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

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ADD LASER MARK DETAIL  
UPDATE OPERATING TEMP. NOTE  
P.M. AUG. 12/2020  
ADD PACKAGING PAGE  
P.M. MAY.19/2024



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

## RJ45 MAGNETIC JACK WITH LED, 10P, 8C SHIELDED/10/100/1000 Mbps FILTER



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ACAD REFERENCE NO.: A60-112-255P483

DRAWN: F.BRIONES

DATE: NOV. 17/15

CHECKED:

DATE:

PART NUMBER

SEE NOTE

SHEET 1 OF 3

DRAWING NUMBER

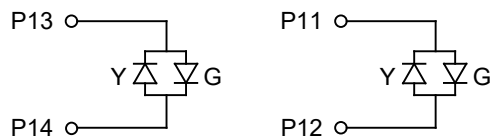
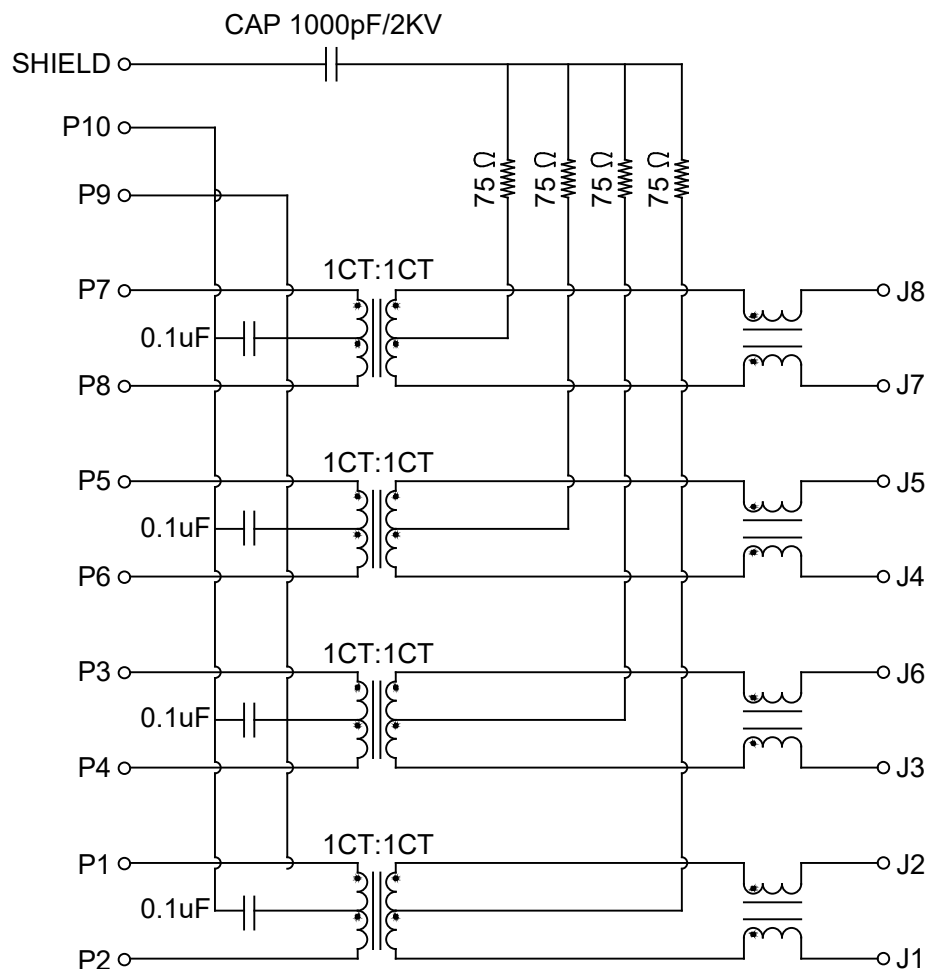
A60-112-255P483

ISSUE

3



# ELECTRICAL CIRCUIT:



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## TEST NOTES:(25°±5°C)

1. TR:(100KHz,0.1V); 100%  
PINS:(P2,P1):(J1,J2)=1:1±5%;(P4,P3):(J3,J6)=1:1±5%  
PINS:(P6,P5):(J4,J5)=1:1±5%;(P8,P7):(J7,J8)=1:1±5%
2. PRIMARY INDUCTANCE: 350uH MIN.@100KHz, 0.1V 8mA BIAS
3. DC RESISTANCE: 1.2 OHMS MAXIMUM
4. INSERTION LOSS:  
1MHz TO 100MHz 1.0dB MAX.  
100MHz TO 125MHz 1.2dB MAX.
5. RETURN LOSS:  
1MHz TO 40MHz 16dB MIN.  
40MHz TO 60MHz 12dB MIN.  
60MHz TO 80MHz 10dB MIN.  
80MHz TO 100MHz 8dB MIN.
6. CROSS TALK:  
1MHz TO 100MHz 30dB MIN.
7. COMMON TO COMMON MODE ATTENUATION:  
1MHz TO 100MHz 30dB MIN.
8. ISOLATION PHY SIDE TO LINE SIDE: 2250 VDC

## LED SPECIFICATIONS (WITH FORWARD CURRENT OF 20 mA)

STANDARD LED	WAVELENGTH	FORWARD V (MAX)	TYP
YELLOW	590 nm	2.5 V	2.1 V
GREEN	565 nm	2.4 V	2.2 V

PIN	GREEN	YELLOW	PIN	GREEN	YELLOW
P11	+	-	P13	+	-
P12	-	+	P14	-	+

## RJ45 MAGNETIC JACK WITH LED, 10P, 8C SHIELDED/10/100/1000 Mbps FILTER



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DRAWN:F.BRIONES

DATE: NOV. 17/15

CHECKED:

DATE:

PART NUMBER

SEE NOTE

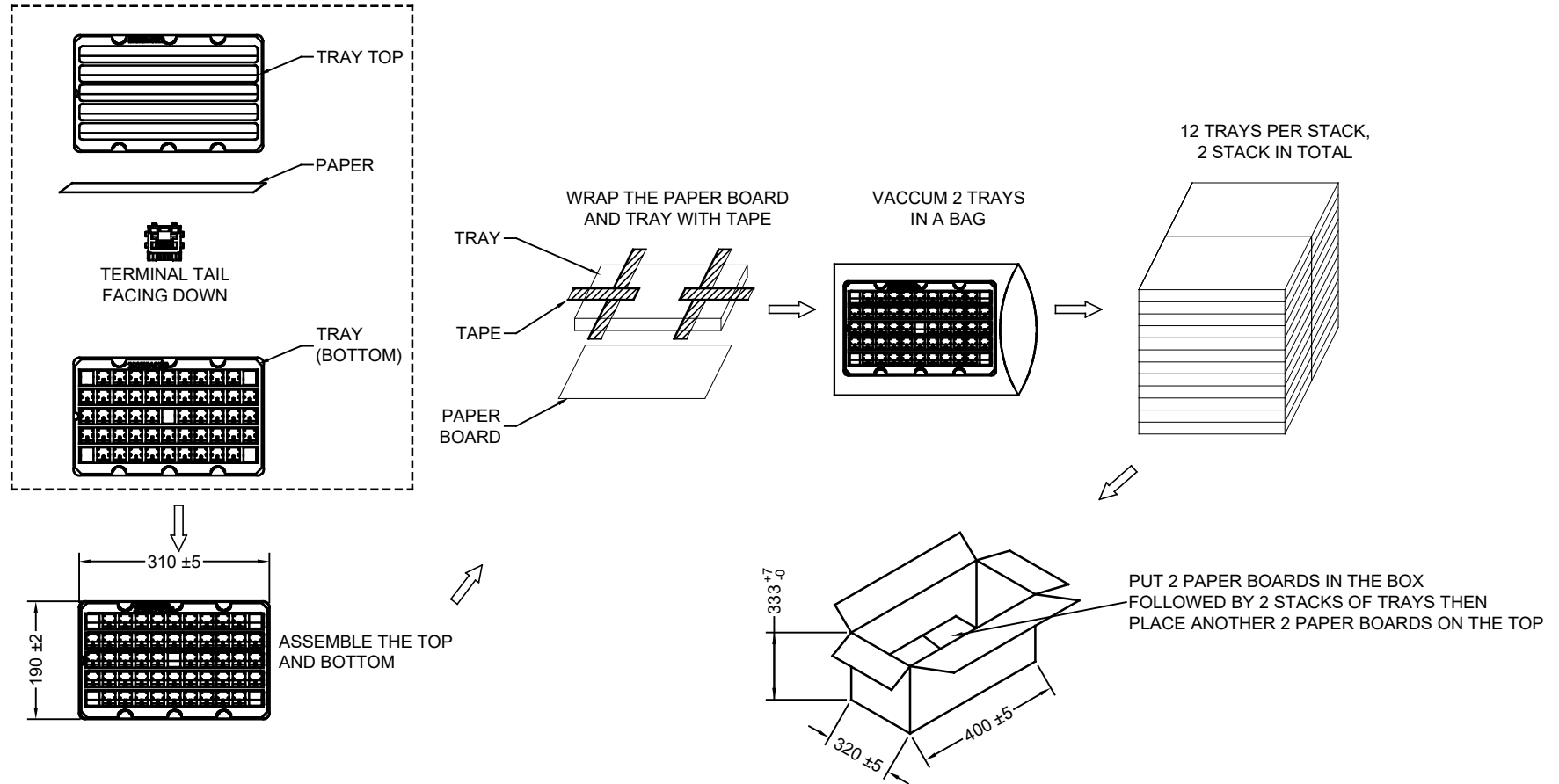
SHEET 2 OF 3

DRAWING NUMBER

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ISSUE

3



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ACAD REFERENCE NO.: A60-112-255P483

DRAWN: F.BRIONES

DATE: NOV. 17/15

CHECKED:

DATE:

PART NUMBER

SEE NOTE

SHEET 3 OF 3

DRAWING NUMBER

A60-112-255P483

ISSUE

3

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

ANGLE x°

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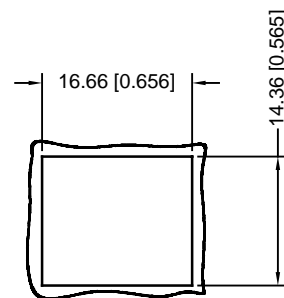
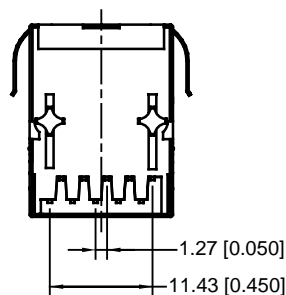
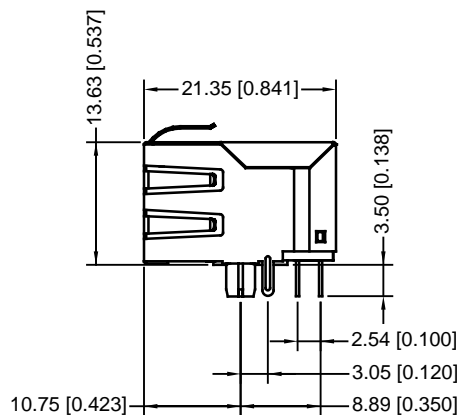
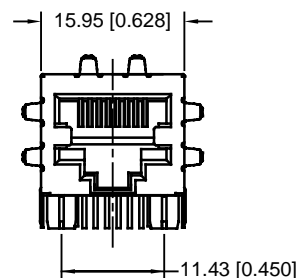
ORIGINAL

UPDATE DRAWING

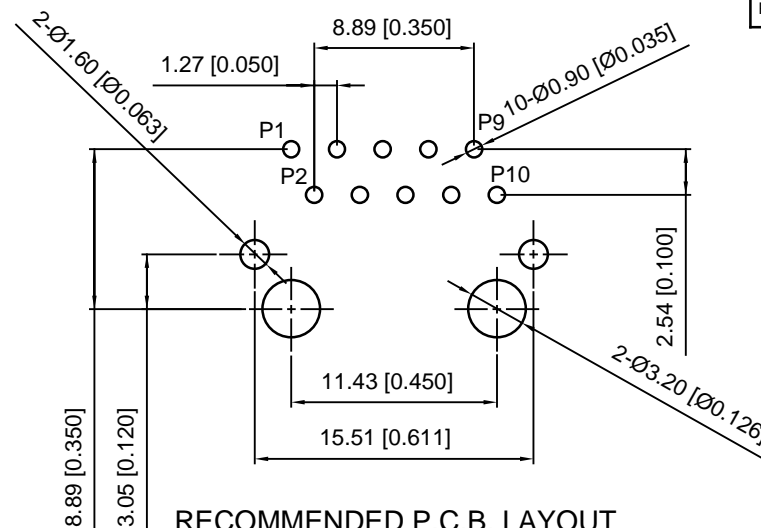
R.STA.MONICA NOV.10/2011

ADD PACKAGING PAGE

P.M. MAY.18/2024



RECOMMENDED  
PANEL CUTOUT DIMENSION



RECOMMENDED P.C.B. LAYOUT  
TOLERANCE:  $\pm 0.08 [\pm 0.003]$

#### NOTES:

##### 1. MATERIALS:

HOUSING: THERMOPLASTIC, UL94 V-0, COLOR: BLACK

SHIELD: BRASS WITH NICKEL PLATING

CONTACTS: COPPER ALLOY PLATED WITH GOLD PLATING AND TIN IN SOLDER AREA

##### PART NO

A60-112-300P432

A60-113-300P432

A60-114-300P432

##### GOLD PLATING THICKNESS

GOLD FLASH PLATING

15 MICRO INCHES OF GOLD

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]

## RJ45 MAGNETIC JACK WITHOUT LED, 10P, 8C SHIELDED/10/100/1000 Mbps FILTER



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ACAD REFERENCE NO.: A60-113-300P432

DRAWN: R.STA.MONICA

DATE: NOV.19/2010

CHECKED:

DATE:

PART NUMBER

SEE NOTE

SHEET 1 OF 3

DRAWING NUMBER

A60-112-300P432

ISSUE

3

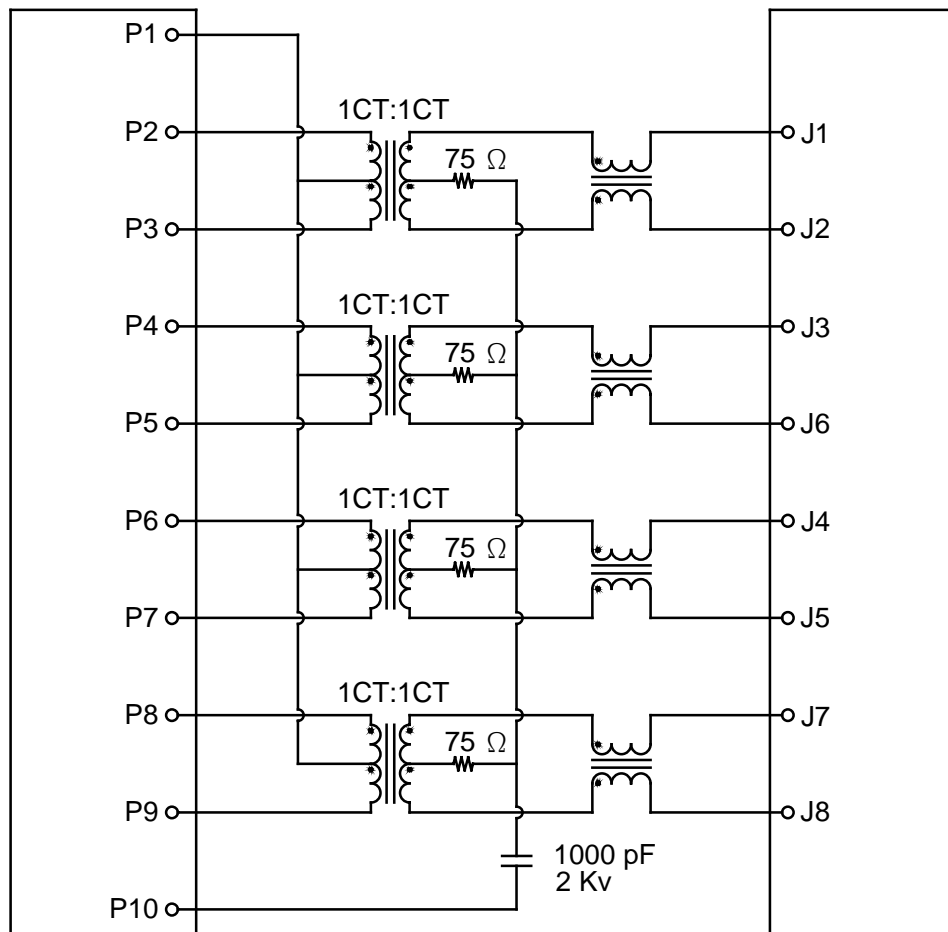
# ELECTRICAL CIRCUIT:

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



CONNECTOR SOLDER SIDE

RJ45 CONTACT SIDE



TEST NOTES:(25°±5°C)

1. TR:(100KHz,0.1V); 100%  
PINS:(P2,P3):(J1,J2)=1:1±5%;(P4,P5):(J3,J6)=1:1±5%  
PINS:(P6,P7):(J4,J5)=1:1±5%;(P8,P9):(J7,J8)=1:1±5%
2. LX:(100KHz,100mV,8mA, DC Bias) 100%  
PINS:(P2,P3),(P4,P5),(P6,P7),(P8,P9)=350uH MINIMUM
3. DC RESISTANCE: 1.2 OHMS MAXIMUM
4. INSERTION LOSS:  
-1.0 dB MINIMUM AT 1MHz TO 100MHz;  
-1.2 dB MINIMUM AT 100MHz TO 125MHz;
5. RETURN LOSS:  
-16dB MAXIMUM AT 1MHz TO 40MHz;  
-12dB MAXIMUM AT 30MHz TO 60MHz  
-10dB MAXIMUM AT 60MHz TO 80MHz  
-8dB MAXIMUM AT 80MHz TO 100MHz
6. CROSS TALK:  
-30dB MINIMUM AT 1MHz TO 100MHz
7. COMMON TO COMMON MODE REJECTION:  
-30dB MINIMUM AT 1MHz TO 100MHz
8. ISOLATION PHY SIDE TO LINE SIDE: 2250 VDC

## RJ45 MAGNETIC JACK WITHOUT LED, 10P, 8C SHIELDED/10/100/1000 Mbps FILTER



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ACAD REFERENCE NO.: A60-113-300P432

DRAWN: R.STA.MONICA

DATE: NOV.19/2010

CHECKED:

DATE:

PART NUMBER

SEE NOTE

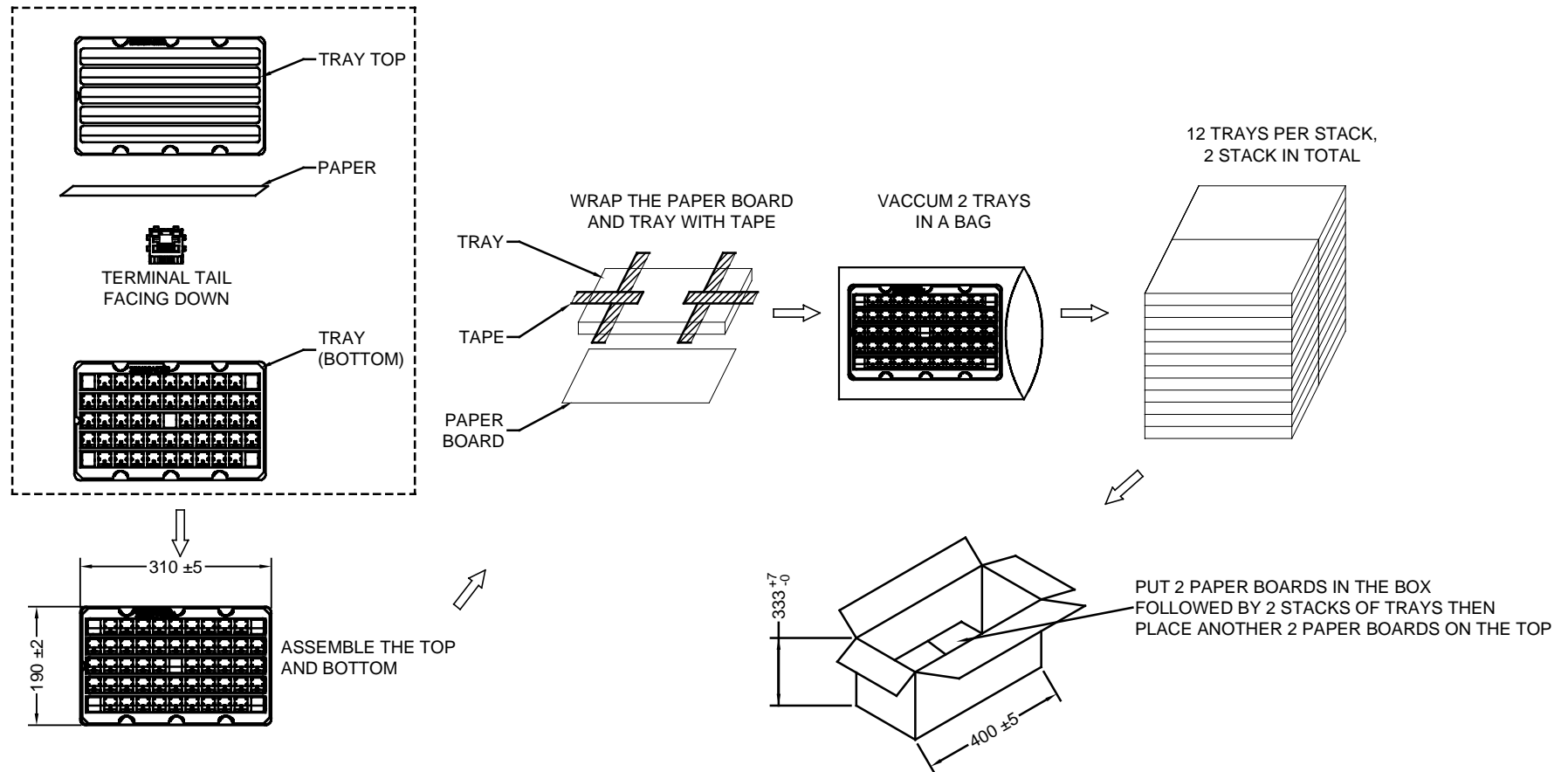
SHEET 2 OF 3

DRAWING NUMBER

A60-112-300P432

ISSUE

3



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## RJ45 MAGNETIC JACK WITHOUT LED, 10P, 8C SHIELDED/10/100/1000 Mbps FILTER



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ACAD REFERENCE NO.: A60-113-300P432

DRAWN: R.STA.MONICA

DATE: NOV.19/2010

CHECKED:

DATE:

PART NUMBER

**SEE NOTE**

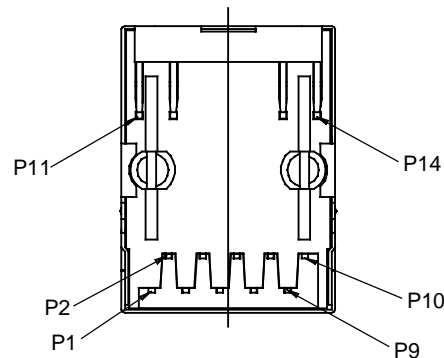
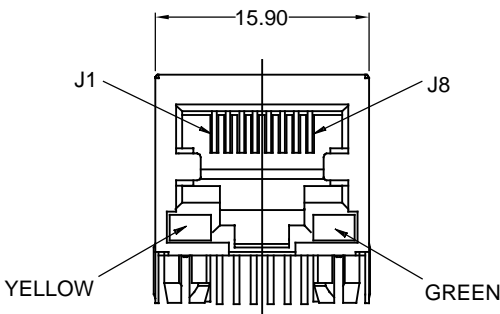
SHEET 3 OF 3

DRAWING NUMBER

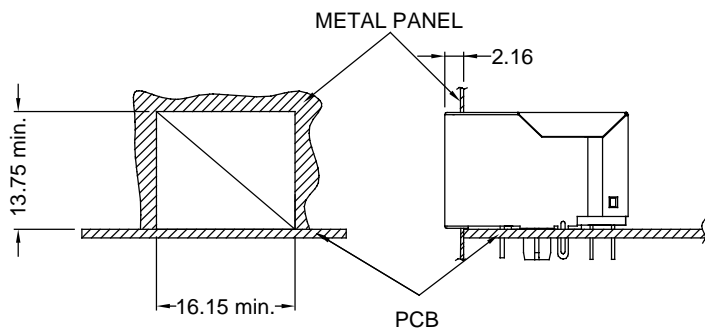
**A60-112-300P432**

ISSUE

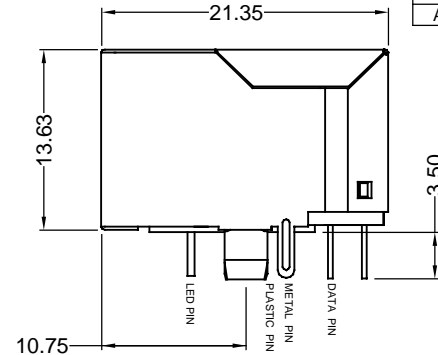
3



LED SPECIFICATION				
STANDARD LED	WAVELENGTH	FORWARD CURRENT	FORWARD V(MAX)	TYP
GREEN	565nm	20mA	2.4V	2.2V
YELLOW	590nm	20mA	2.5V	2.1V



**SUGGESTED PANEL OPENING**  
TOLERANCE:  $\pm 0.10$



#### NOTES:

**MATERIAL:**  
HOUSING: PBT, BLACK COLOUR, UL94V-0  
SHIELD: BRASS, NICKEL PLATING  
CONTACT: PHOSPHOR BRONZE, 6 $\mu$  min. GOLD PLATING IN CONTACT AREA

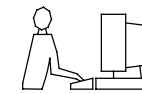
**OPERATING TEMPERATURE:** -40°C ~ 85°C  
**STORAGE TEMPERATURE:** -40°C ~ 85°C

PIN NOT ELECTRICALLY CONNECTED MAYBE OMITTED SEE ELECTRICAL DRAWING  
RJ45 CAVITIES CONFORM TO FCC RULES AND REGULATION PART 68.

THE PART IS RECOMMENDED FOR WAVE SOLDERING  
PROCESS PEAK SOLDERING TEMPERATURE IS 260°C MAX, 10 SECS MAX.

TOLERANCE UNLESS OTHERWISE SPECIFIED	
ALL	$\pm 0.254$

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#### ELECTRICAL SPECIFICATIONS:

TURN RATIO @ 100KHz:

(P3~P4):(J1:J2) = 1:1 $\pm$ 5%

(P5~P6):(J3:J6) = 1:1 $\pm$ 5%

(P7~P8):(J4:J5) = 1:1 $\pm$ 5%

(P9~P10):(J7:J8) = 1:1 $\pm$ 5%

PRIMARY INDUCTANCE:

350 $\mu$ H min @ 100KHz, 0.1V 8mA DC BIAS

DC RESISTANCE:

1.2 $\Omega$  MAX.

INSERTION LOSS:

1-100MHz -1.0dB MAX.

100-125MHz -1.2dB MAX.

1-40MHz -16dB min.

40-60MHz -12dB min.

60-80MHz -10dB min.

80-100MHz -8dB min.

1-100MHz -30dB min.

RETURN LOSS:

CROSS TALK:

COMMON TO COMMON

MODE ATTENUATION:

1-100MHz

-30dB min.

ISOLATION PHY SIDE TO LINE SIDE:

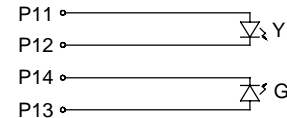
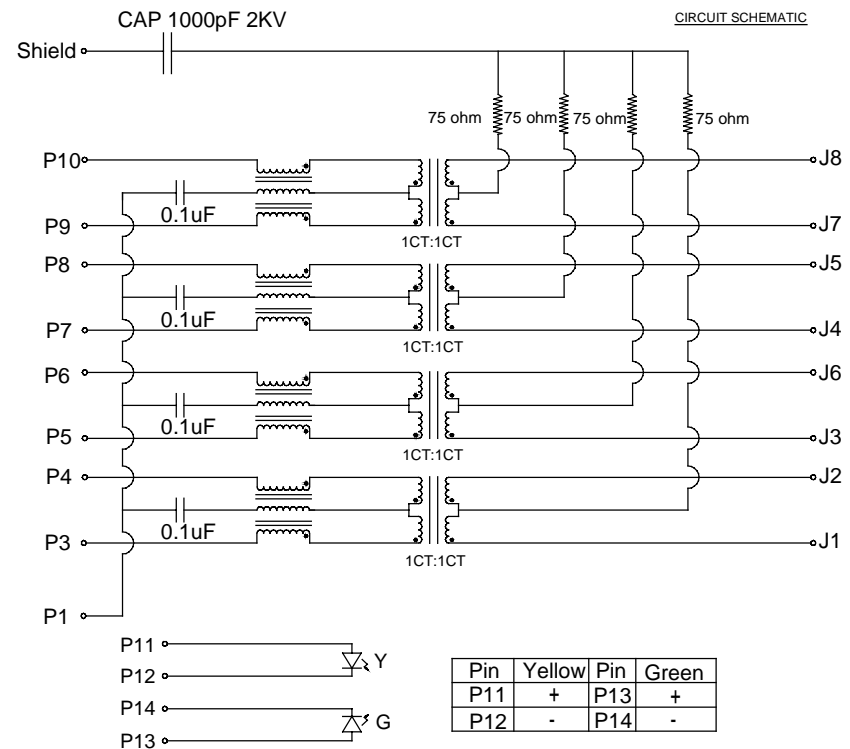
2250V AC

DATA PIN: 0.3mm~0.4mm

METAL PIN: 1.26mm WIDE

PLASTIC PIN:  $\varnothing 3.2$ mm

LED PIN: SQ 0.48mm



Pin	Yellow	Pin	Green
P11	+	P13	+
P12	-	P14	-



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ACAD REFERENCE NO.: A60-112-313P188

DRAWN: J.T

DATE: MAR. 13/2019

CHECKED:

DATE:

SCALE: (IN C.A.D. 1:1)

SHEET 1 OF 3

DRAWING NUMBER: A60-112-313P188

ISSUE

PART NUMBER: A60-112-313P188

5

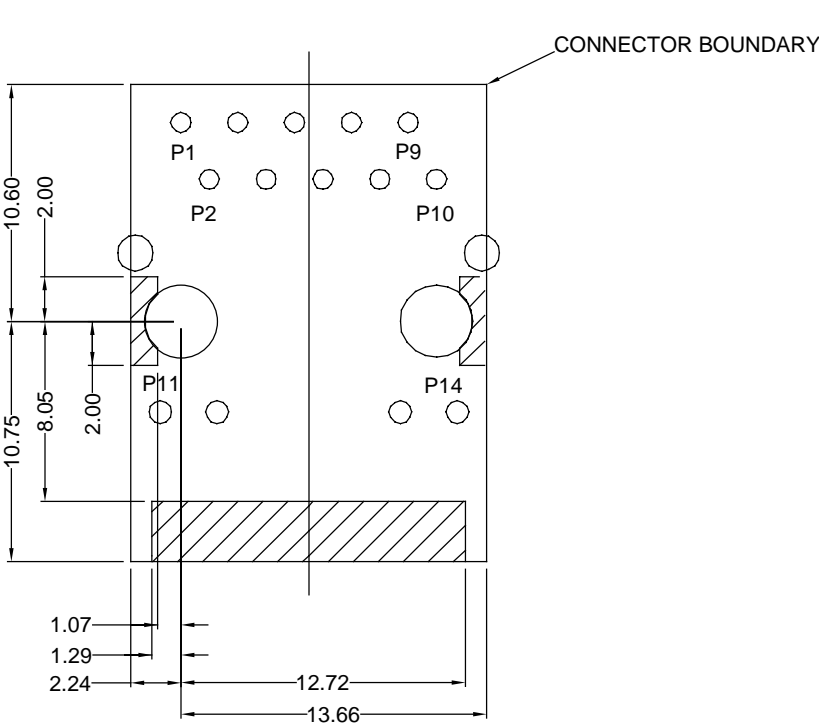
**RJ45, 1000 BASE-T, MAG-JACK, R/A P.C.B  
MOUNT, SHIELDED**

TOLERANCE UNLESS OTHERWISE SPECIFIED	
ALL	±0.10

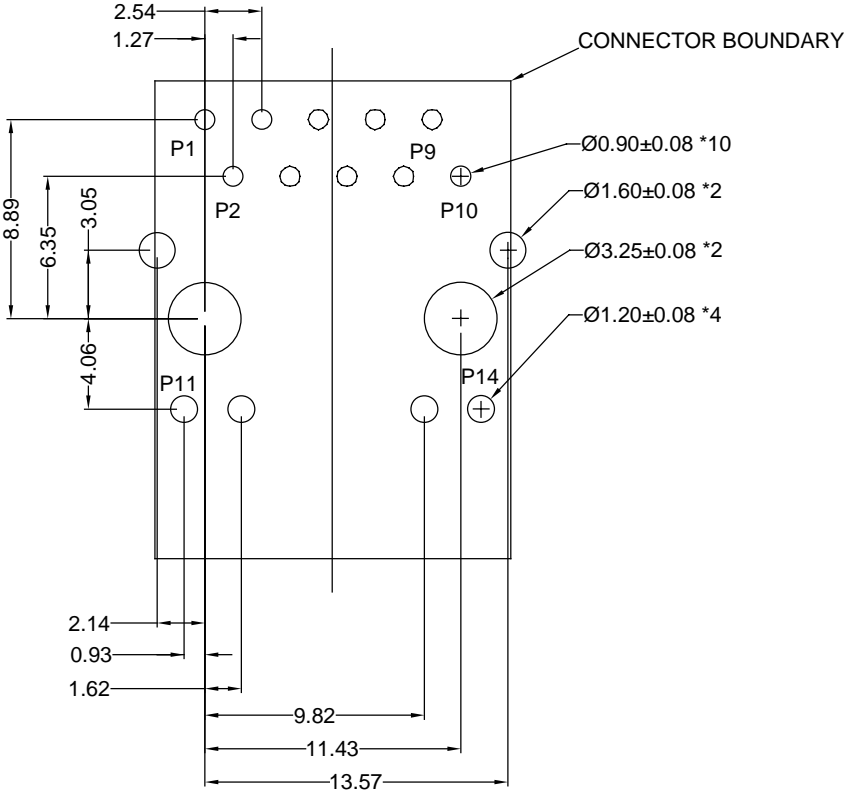
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ISSUE NUMBER	
SEE SHEET 1	



PLUG IN SIDE  
KEEP OUT AREA  
(COMPONENT SIDE VIEW)



PLUG IN SIDE  
RECOMMENDED P.C.B LAYOUT  
(COMPONENT SIDE VIEW)



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DRAWN: J.T

DATE: MAR. 13/2019

CHECKED:

DATE:

SCALE: (IN C.A.D. 2:1)

SHEET 2 OF 3

DRAWING NUMBER: A60-112-313P188

ISSUE

PART NUMBER: A60-112-313P188

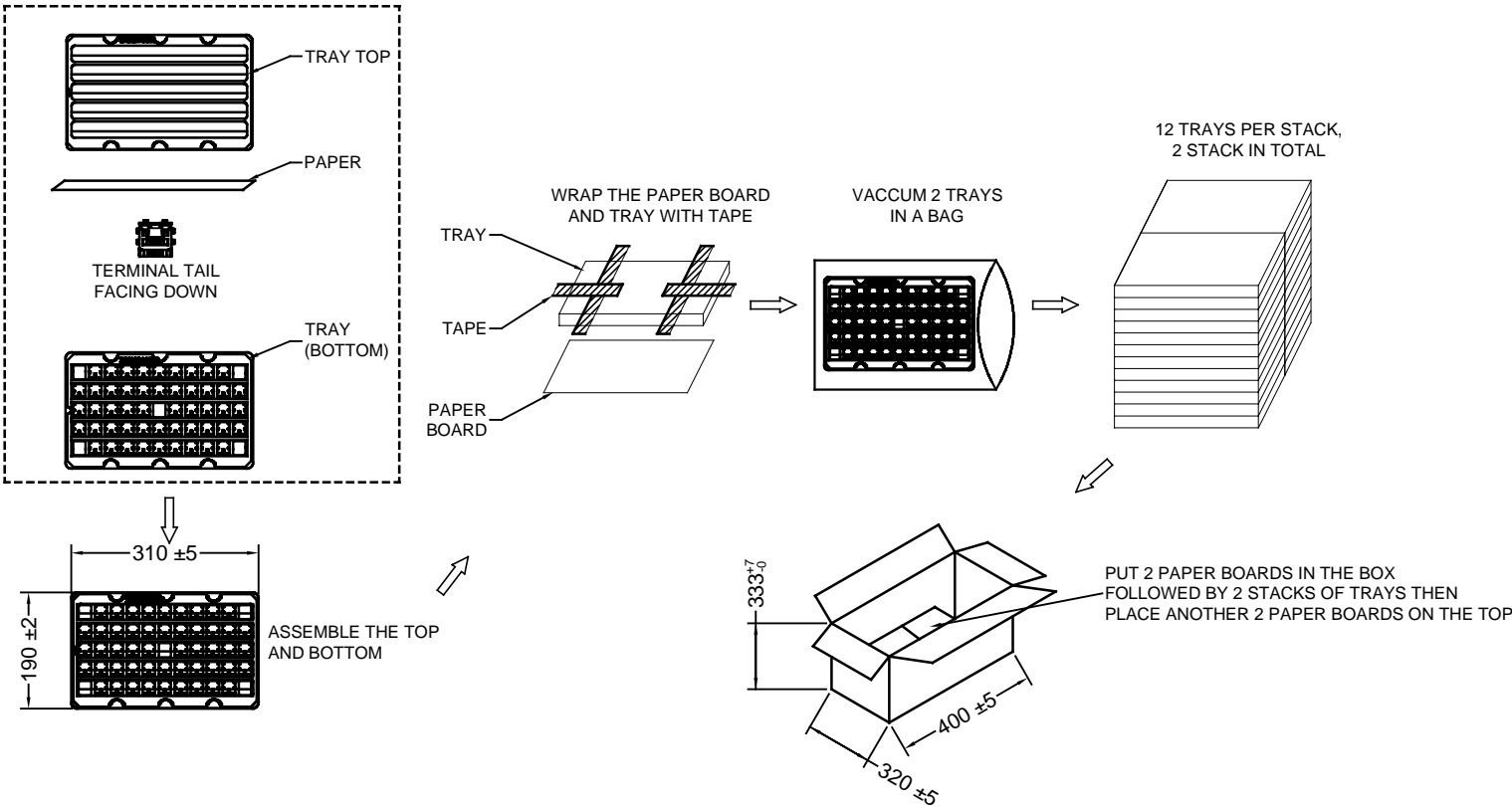
5

TOLERANCE UNLESS OTHERWISE SPECIFIED	
ALL	±0.10

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ISSUE NUMBER
SEE SHEET 1



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RJ45, 1000 BASE-T, MAG-JACK, R/A P.C.B  
MOUNT, SHIELDED



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DRAWN: J.T

DATE: MAR. 13/2019

CHECKED:

DATE:

SCALE: (IN C.A.D. 2:1)

SHEET 3 OF 3

DRAWING NUMBER: A60-112-313P188

ISSUE

PART NUMBER: A60-112-313P188

5



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

ANGLE °

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ISSUE NUMBER

ORIGINAL

①

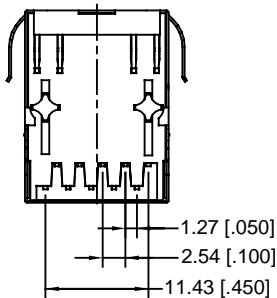
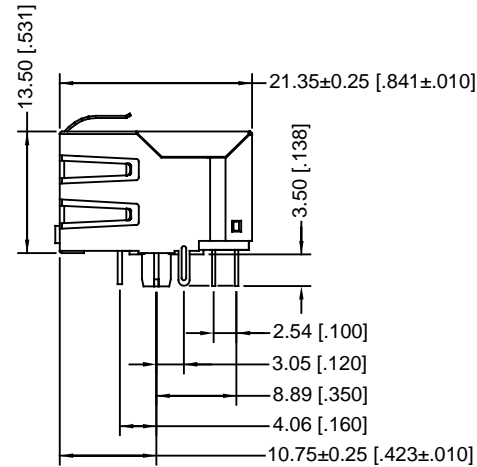
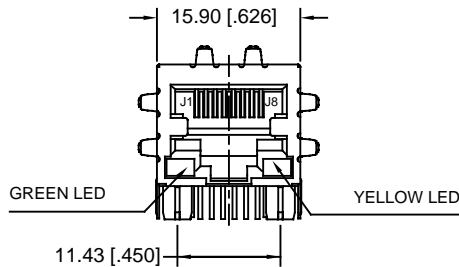
UPDATE DRAWING

R.STA.MONICA SEPT.23/2011

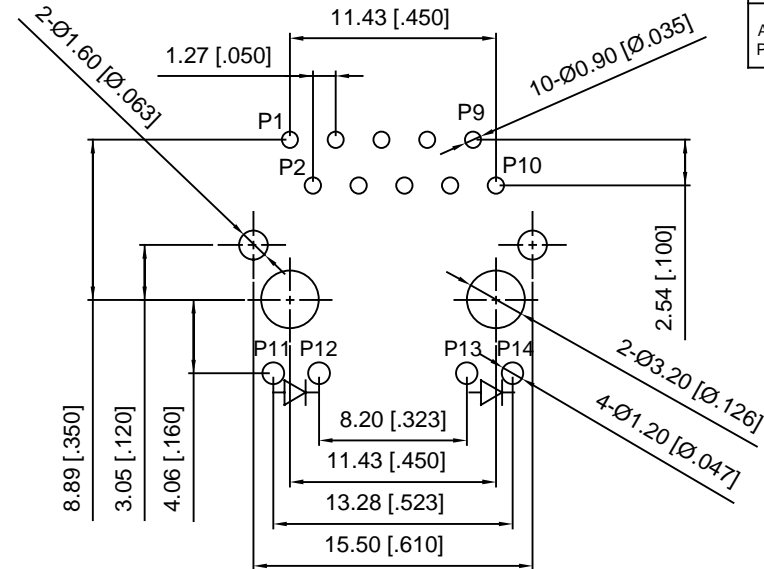
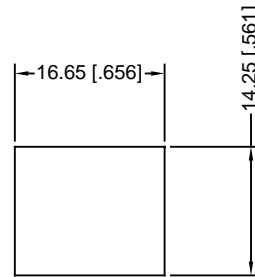
②

ADD PACKAGING PAGE  
P.M. MAY.18/2024

③



RECOMMENDED  
PANEL CUTOUT DIMENSION



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

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

A60-112-331P432

A60-113-331P432

A60-114-331P432

GOLD PLATING THICKNESS

GOLD FLASH PLATING

15 MICRO INCHES OF GOLD

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]

RJ45 MAGNETIC JACK WITH LED, 10P, 8C  
SHIELDED/10/100/1000 Mbps FILTER

ACAD REFERENCE NO.: A60-112-331P432

DRAWN: R.STA.MONICA

DATE: JAN.24/2011

CHECKED:

DATE:

PART NUMBER

SEE NOTE

SHEET 1 OF 3

DRAWING NUMBER

A60-112-331P432

ISSUE

3



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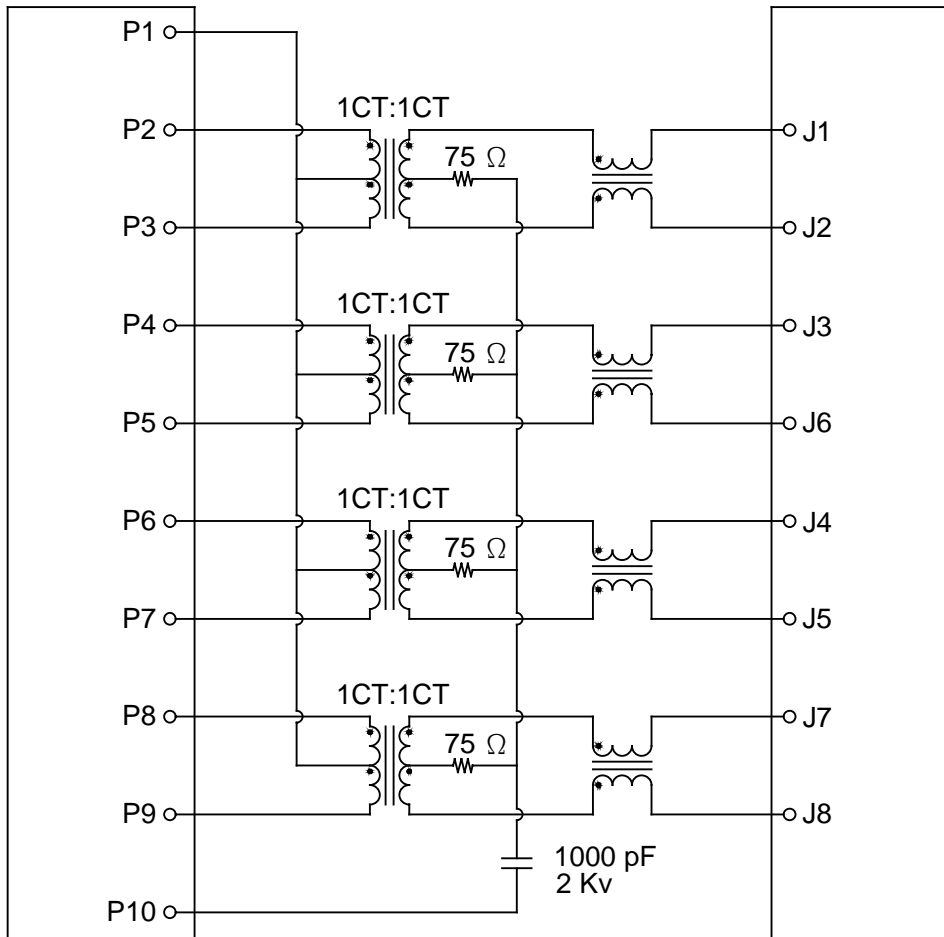
# ELECTRICAL CIRCUIT:

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CONNECTOR SOLDER SIDE

RJ45 CONTACT SIDE



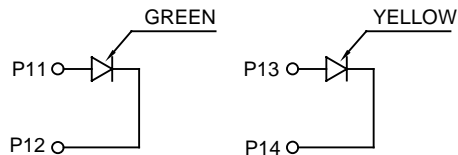
TEST NOTES:(25°±5°C)

- TR:(100KHz,0.1V); 100%  
PINS:(P2,P3):(J1,J2)=1:1±5%;(P4,P5):(J3,J6)=1:1±5%  
PINS:(P6,P7):(J4,J5)=1:1±5%;(P8,P9):(J7,J8)=1:1±5%
- LX:(100KHz,100mV,8mA, DC Bias) 100%  
PINS:(P2,P3),(P4,P5),(P6,P7),(P8,P9)=350uH MINIMUM
- DC RESISTANCE: 1.2 OHMS MAXIMUM
- INSERTION LOSS:  
-1.0 dB MINIMUM AT 1MHz TO 100MHz;  
-1.2 dB MINIMUM AT 100MHz TO 125MHz;
- RETURN LOSS:  
-16dB MAXIMUM AT 1MHz TO 40MHz;  
-12dB MAXIMUM AT 30MHz TO 60MHz  
-10dB MAXIMUM AT 60MHz TO 80MHz  
-8dB MAXIMUM AT 80MHz TO 100MHz
- CROSS TALK:  
-30dB MINIMUM AT 1MHz TO 100MHz
- COMMON TO COMMON MODE REJECTION:  
-30dB MINIMUM AT 1MHz TO 100MHz
- ISOLATION PHY SIDE TO LINE SIDE: 2250 VDC

## LED SPECIFICATIONS (WITH FORWARD CURRENT OF 20 mA)

STANDARD LED	WAVELENGTH	FORWARD V (MAX)	TYP
GREEN	565 nm	2.4 V	2.2 V
YELLOW	590 nm	2.5 V	2.1 V

## LED CIRCUIT:



## RJ45 MAGNETIC JACK WITH LED, 10P, 8C SHIELDED/10/100/1000 Mbps FILTER



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ACAD REFERENCE NO.: A60-112-331P432

DRAWN: R.STA.MONICA

DATE: JAN.24/2011

CHECKED:

DATE:

PART NUMBER

SEE NOTE

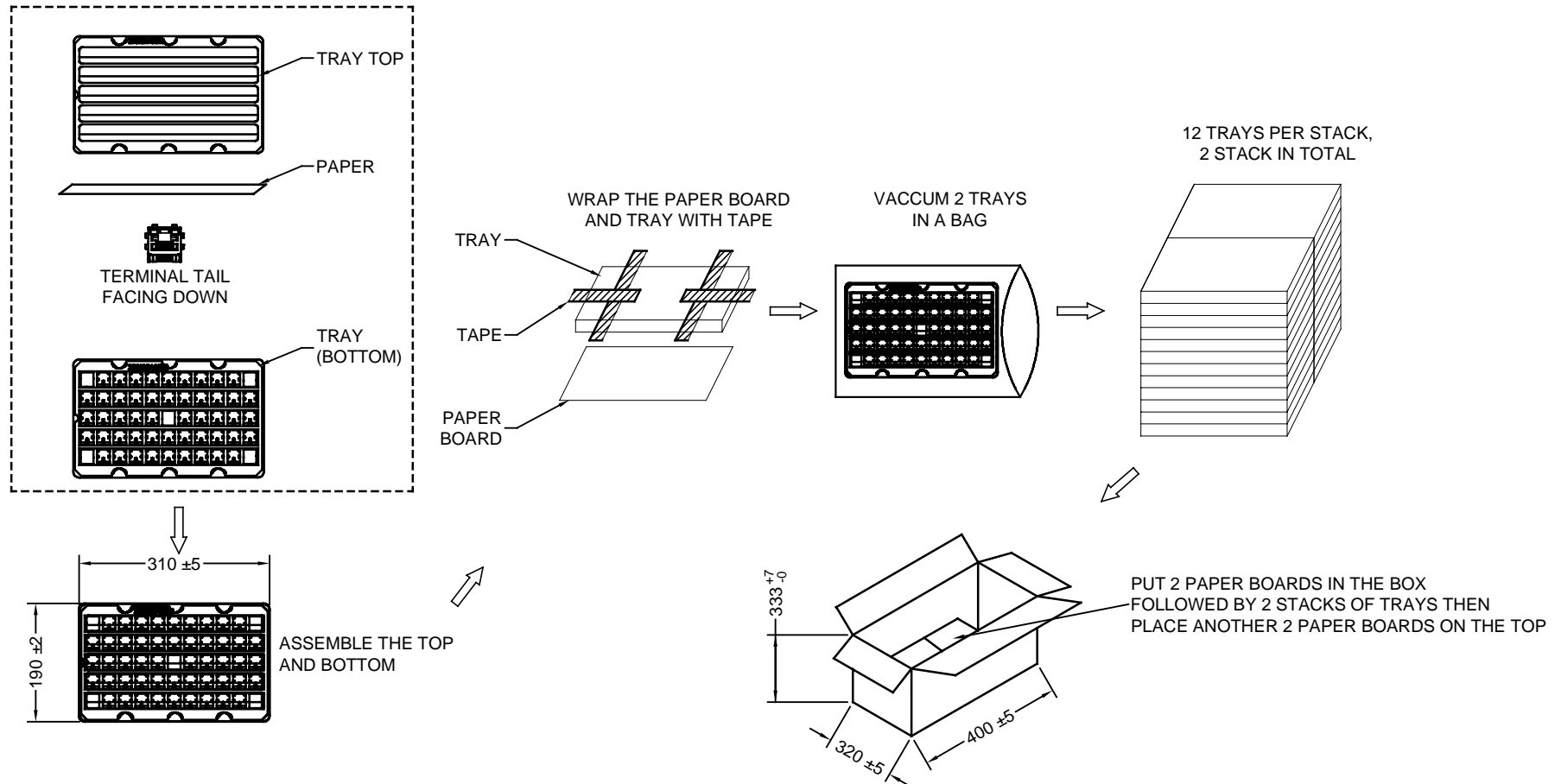
SHEET 2 OF 3

DRAWING NUMBER

A60-112-331P432

ISSUE

3



# RJ45 MAGNETIC JACK WITH LED, 10P, 8C SHIELDED/10/100/1000 Mbps FILTER

ACAD REFERENCE NO.: A60-112-331P432

DRAWN: R.STA.MONICA

DATE: JAN.24/2011

CHECKED:

DATE:

PART NUMBER

SEE NOTE

SHEET 3 OF 3

DRAWING NUMBER

A60-112-331P432

ISSUE

3

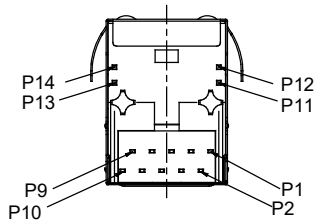
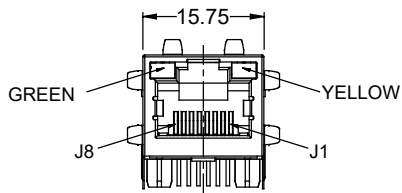


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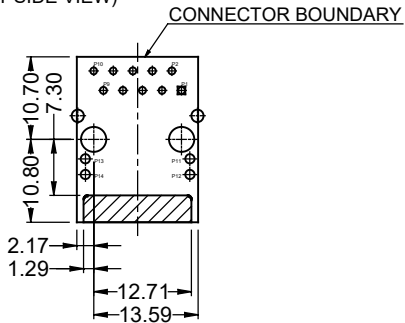


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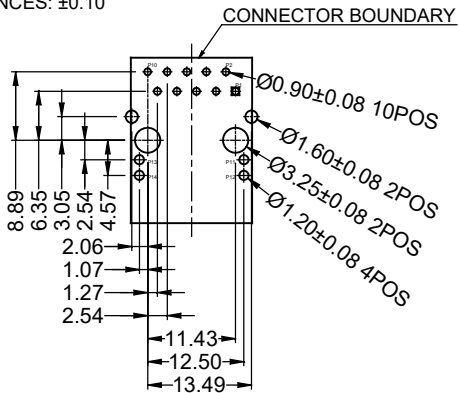
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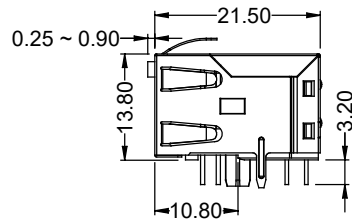
KEEP-OUT AREA  
(COMPONENT SIDE VIEW)



TOLERANCES:  $\pm 0.10$

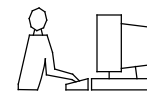


RECOMMENDED P.C.B LAYOUT  
(COMPONENT SIDE VIEW)

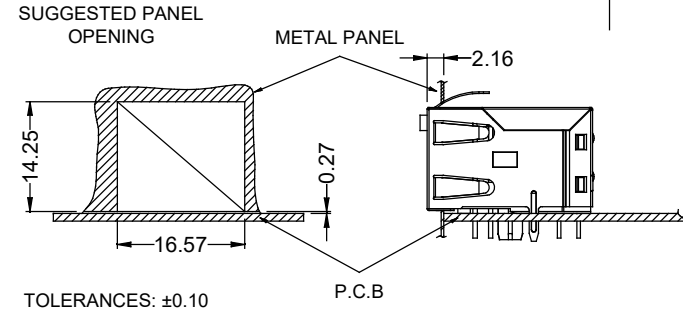


TOLERANCE UNLESS OTHERWISE SPECIFIED	
ALL	$\pm 0.254$

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ISSUE NUMBER	
ORIGINAL	①
ADD PACKAGING PAGE	②
P.M.	MAY,18/2024



TOLERANCES:  $\pm 0.10$

P.C.B

NOTES:

MATERIAL:  
HOUSING: THERMOPLASTIC, BLACK COLOUR, UL94V-0  
SHIELD: BRASS, NICKEL PLATING  
CONTACT: PHOSPHOR BRONZE,  
30 $\mu$ " GOLD PLATING ON CONTACT AREA

OPERATING TEMPERATURE: 0°C ~ 70°C  
STORAGE TEMPERATURE: -40°C ~ 85°C

PIN NOT ELECTRICALLY CONNECTED MAYBE OMITTED SEE  
ELECTRICAL DRAWING  
RJ45 CAVITIES CONFORM TO FCC RULES AND REGULATION  
PART 68.

THE PART IS RECOMMENDED FOR WAVE SOLDERING  
PROCESS PEAK SOLDERING TEMPERATURE IS 260°C MAX,  
10s MAX.

ELECTRICAL SPECIFICATIONS:

TURN RATIO @ 100KHz:

(P2~P3):(J1:J2) = 1:1 $\pm$ 5%  
(P4~P5):(J3:J6) = 1:1 $\pm$ 5%  
(P6~P7):(J4:J5) = 1:1 $\pm$ 5%  
(P8~P9):(J7:J8) = 1:1 $\pm$ 5%  
350 $\mu$ H min @ 100KHz,  
0.1V 8mA DC BIAS

PRIMARY INDUCTANCE:

DC RESISTANCE:  
INSERTION LOSS:

1.2 $\Omega$  MAX.  
1-100MHz -1.0dB MAX.  
100-125MHz -1.2dB MAX.  
1-40MHz -16dB min.  
40-60MHz -12dB min.  
60-80MHz -10dB min.  
80-100MHz -8dB min.  
1-100MHz -30dB min.

RETURN LOSS:

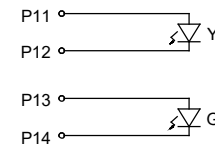
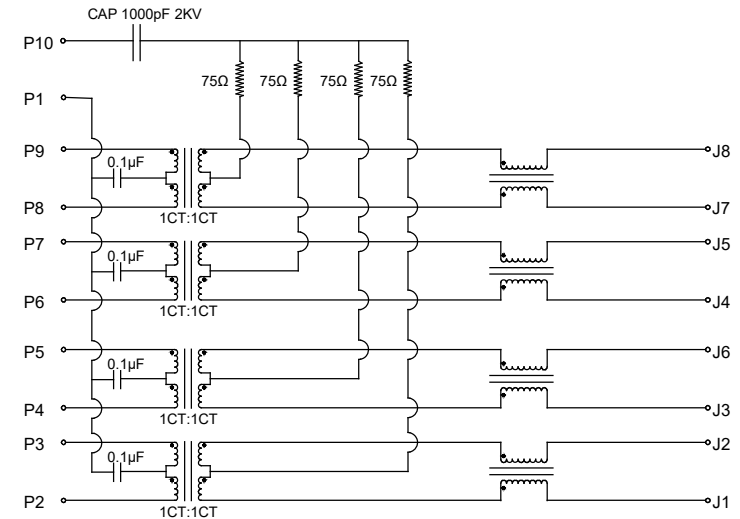
CROSS TALK:

COMMON TO COMMON  
MODE ATTENUATION:

ISOLATION PHY SIDE TO LINE SIDE:

1-100MHz -30dB min.  
2250V AC

CIRCUIT SCHEMATIC



YELLOW PIN	GREEN PIN
P11 +	P13 +
P12 -	P14 -

## RJ45 - 1000 BASE-T, SINGLE PORT



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ACAD REFERENCE NO.: A60-114-231P474

DRAWN: C.B

DATE: JUN. 01/2017

CHECKED:

DATE:

SCALE: (IN C.A.D. 1:1)

SHEET 1 OF 2

DRAWING NUMBER: A60-114-231P474

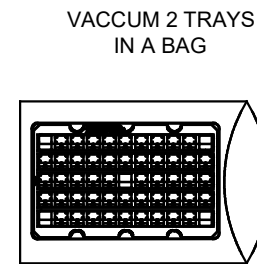
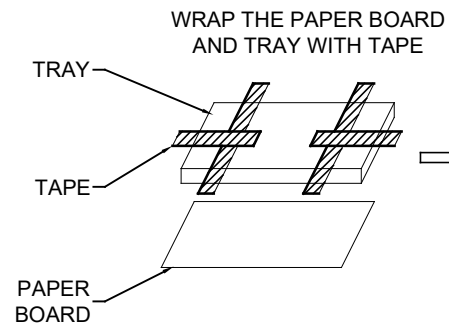
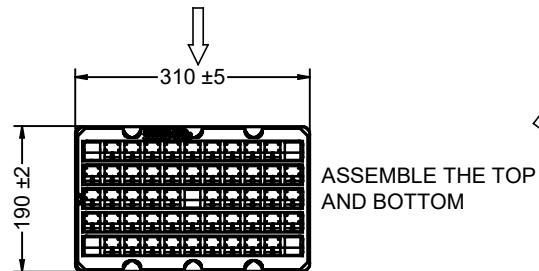
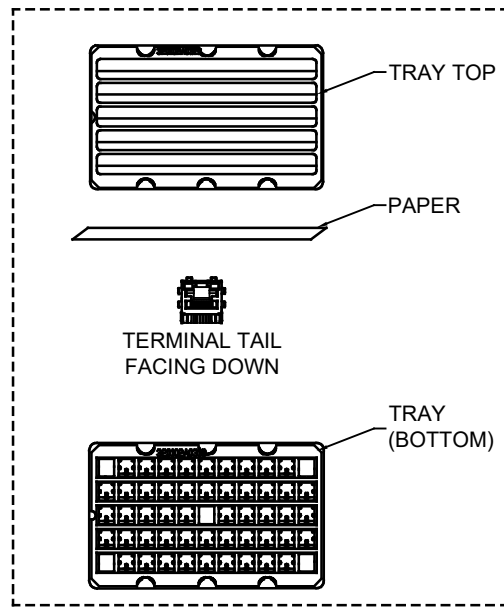
ISSUE

PART NUMBER: A60-114-231P474

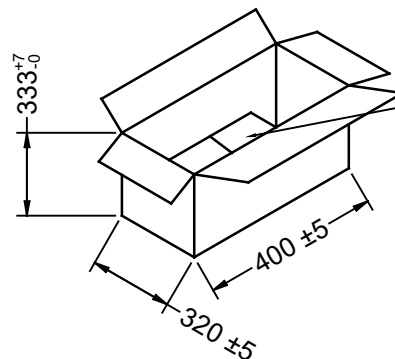
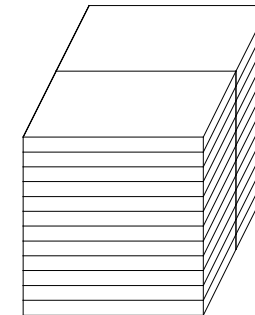
2



THIS SERIES FULLY CONFORMS TO  
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2011/65/EU FOR RoHS COMPLIANCY.



12 TRAYS PER STACK,  
2 STACK IN TOTAL



PUT 2 PAPER BOARDS IN THE BOX  
FOLLOWED BY 2 STACKS OF TRAYS THEN  
PLACE ANOTHER 2 PAPER BOARDS ON THE TOP



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## RJ45 - 1000 BASE-T, SINGLE PORT

ACAD REFERENCE NO.: A60-114-231P474

DRAWN: C.B

DATE: JUN. 01/2017

CHECKED:

DATE:

SCALE: (IN C.A.D. 1:1)

SHEET 1 OF 2

DRAWING NUMBER: A60-114-231P474

ISSUE

PART NUMBER: A60-114-231P474

2

TOLERANCE UNLESS OTHERWISE  
SPECIFIED IN MM:  
0.0 ± 0.38  
0.00 ± 0.25  
0.000 ± 0.10

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ISSUE NUMBER

ORIGINAL

1

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

2

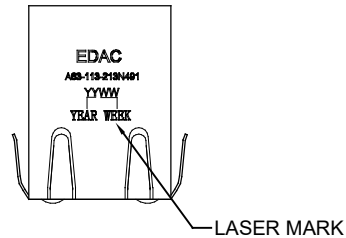
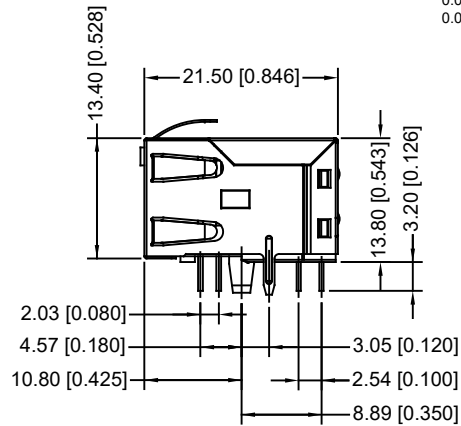
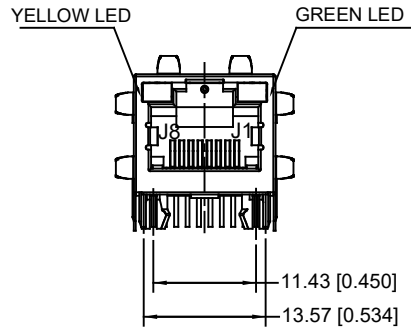
ADD PART NO. LASER  
MARKING  
R.STA.MONICA JAN.13/2016

3

ADD PACKAGING PAGE

4

P.M. MAY.18/2024



NOTES:

1. MATERIALS:

HOUSING: HIGH TEMPERATURE 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
A63-112-213N491	GOLD FLASH PLATING
A63-113-213N491	15 MICRO INCHES OF GOLD
A63-114-213N491	30 MICRO INCHES OF GOLD

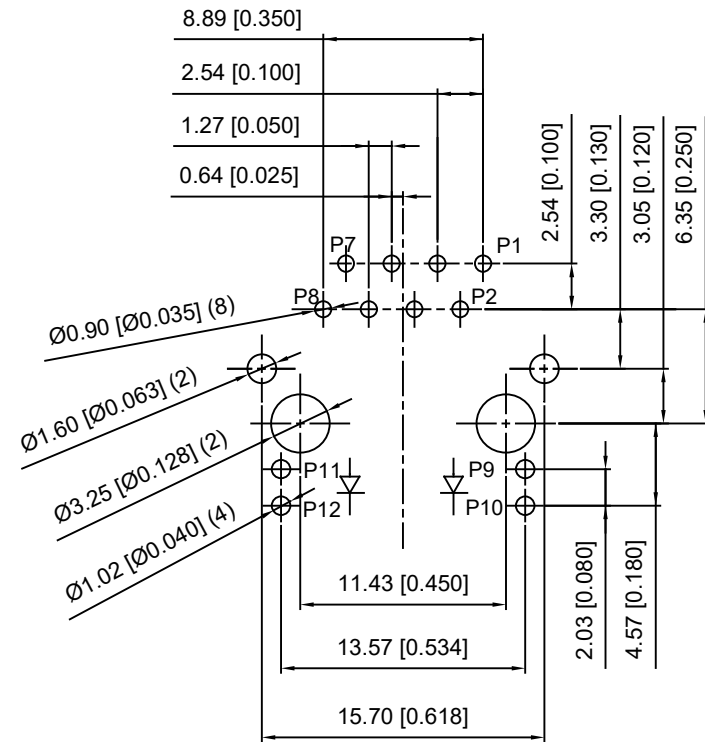
2. OPERATING TEMPERATURE: 0°C TO +70°C

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]

RJ45 MAGNETIC JACK WITH LED, 8P, 8C  
SHIELDED/10/100 Mbps FILTER



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ACAD REFERENCE NO.: A63-112-213N491

DRAWN: R.STA.MONICA

DATE: NOV.19/2010

CHECKED:

DATE:

PART NUMBER

SEE NOTE

SHEET 1 OF 2

DRAWING NUMBER

A63-112-213N491

ISSUE

4

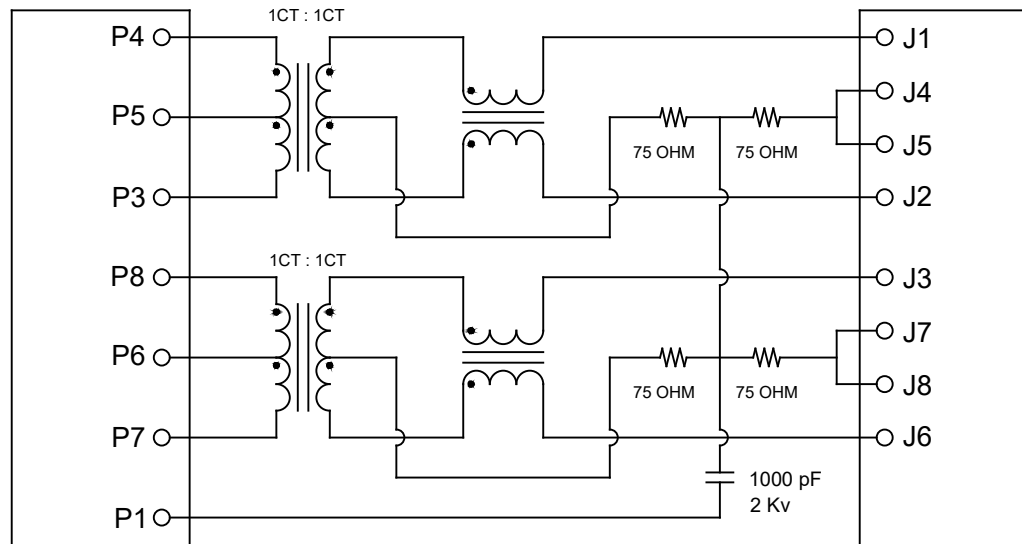
## ELECTRICAL CIRCUIT:

THIS IS A C.A.D. GENERATED DRAWING  
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### CONNECTOR SOLDER SIDE

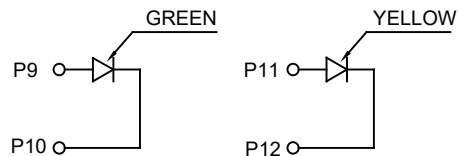
### RJ45 CONTACT SIDE



### TEST NOTES:(25±5°C)

- TURN RATIO:(100KHz,0.1V);  
PINS:(P4-P3):(J1-J2)=1:1±3%  
PINS:(P8-P7):(J3-J6)=1:1±3%
- LX:(100KHz,100mV,8mA, DC Bias)  
PINS:(P4,P3),(P8,P7)=350uH MINIMUM
- DCR: PINS:(J1-J2),(J3-J6)= 1.2 OHMS MAXIMUM
- DIELECTRIC WITHSTAND:  
PINS:(P4-P3):(J1-J2)=1500VAC OR 2250VDC  
PINS:(P8-P7):(J3-J6)=1500VAC OR 2250VDC
- INSERTION LOSS:  
-1.2dB MAXIMUM AT 0.1MHz TO 100MHz
- RETURN LOSS:  
-18dB MINIMUM AT 1MHz TO 30MHz;  
-(18-20log(f/30))dB MINIMUM AT 30MHz TO 60MHz  
-12dB MINIMUM AT 60MHz TO 80MHz
- CROSS TALK:  
-35dB TYPICAL AT 1MHz TO 100MHz
- COMMON TO COMMON MODE REJECTION:  
-30dB TYPICAL AT 30MHz TO 100MHz
- LEAKAGE INDUCTANCE:  
PINS:(P4-P3) WITH J1 AND J2 SHORT=0.35uH MAXIMUM AT 1MHz  
PINS:(P8-P7) WITH J3 AND J6 SHORT=0.35uH MAXIMUM AT 1MHz
- INTERWINDING CAPACITANCE  
PINS:(P4-P3):(J1-J2)=35pF MAXIMUM AT 1MHz  
PINS:(P8-P7):(J3-J6)=35pF MAXIMUM AT 1MHz

### LED CIRCUIT:



### LED SPECIFICATIONS (WITH FORWARD CURRENT OF 20 mA)

STANDARD LED	WAVELENGTH	FORWARD V (MAX)	TYP
GREEN	565 nm	2.4 V	2.2 V
YELLOW	590 nm	2.5 V	2.1 V

## RJ45 MAGNETIC JACK WITH LED, 8P, 8C SHIELDED/10/100 Mbps FILTER



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ACAD REFERENCE NO.: A63-112-213N491

DRAWN: R.STA.MONICA

DATE: NOV.19/2010

CHECKED:

DATE:

PART NUMBER

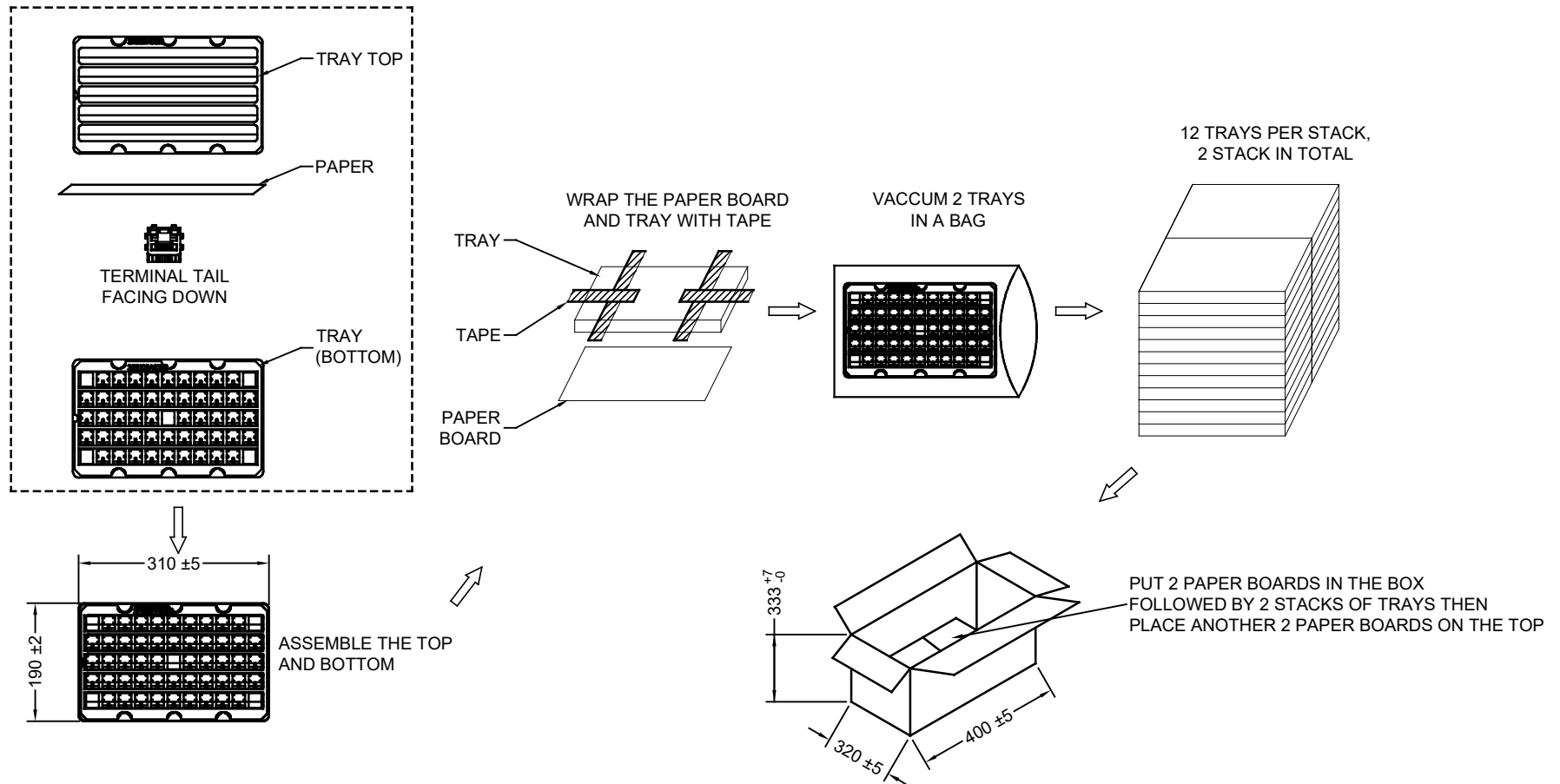
SEE NOTE

DRAWING NUMBER

A63-112-213N491

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4



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## RJ45 MAGNETIC JACK WITH LED, 8P, 8C SHIELDED/10/100 Mbps FILTER

ACAD REFERENCE NO.: A63-112-213N491

DRAWN: R.STA.MONICA

DATE: NOV.19/2010

CHECKED:

DATE:

PART NUMBER

**SEE NOTE**

DRAWING NUMBER

**A63-112-213N491**

ISSUE

4



TOLERANCE UNLESS OTHERWISE  
SPECIFIED IN MM:  
0.0 ± 0.38  
0.00 ± 0.25  
0.000 ± 0.10

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ISSUE NUMBER

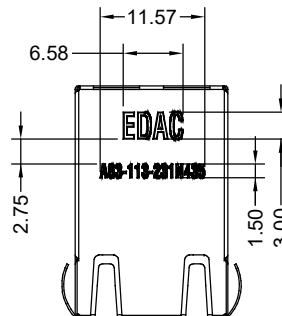
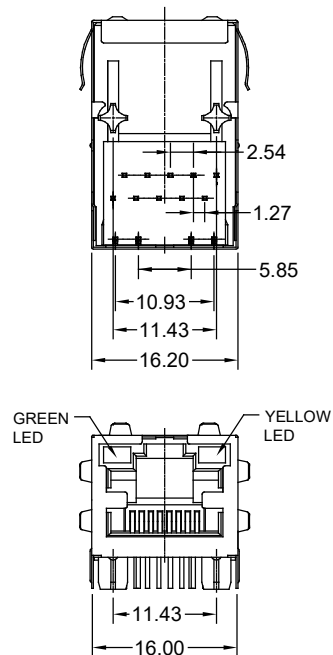
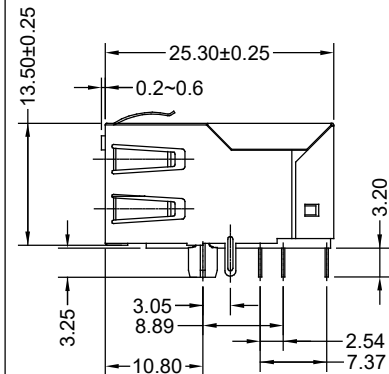
ORIGINAL

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

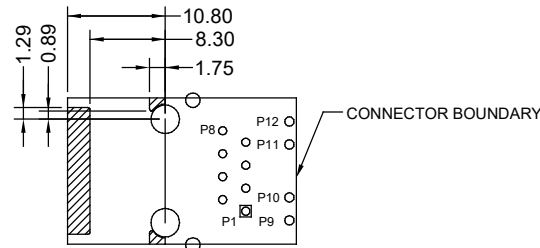
UPDATE OPERATING TEMP  
R.STA.MONICA MAR.24/2015

ADD EDAC LOGO  
Y.ZHANG MAY.06/2019

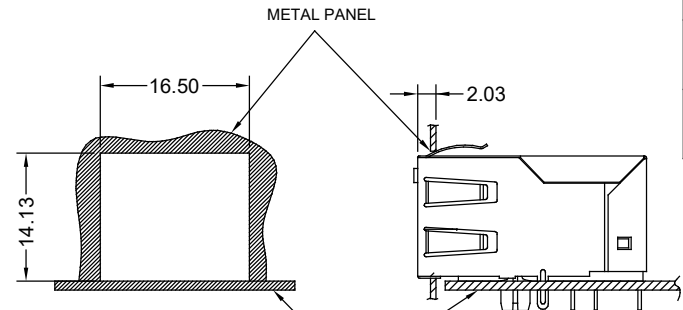
ADD PACKAGING PAGE  
P.M. MAY.19/2024



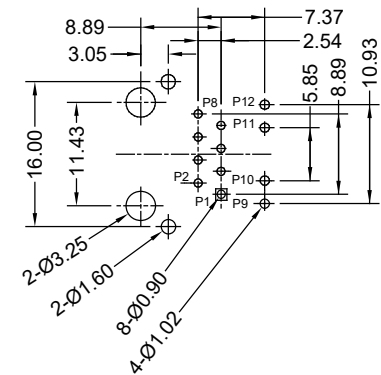
PLUG INSIDE  
LABEL  
FONT: ARIAL



KEEP-OUT AREA (COMPONENT SIDE VIEW)  
TOLERANCE: ±0.10



SUGGESTED PANEL OPENING  
TOLERANCE: ±0.10



RECOMMENDED PCB LAYOUT (COMPONENT SIDE VIEW)  
TOLERANCE: ±0.10

#### NOTES:

##### 1. MATERIALS:

HOUSING: HIGH TEMPERATURE THERMOPLASTIC, UL 94V-0, COLOR: BLACK  
SHIELD: BRASS, NICKEL PLATING  
CONTACTS: COPPER ALLOY PLATED WITH GOLD PLATING AND TIN IN SOLDER AREA

PART NO	GOLD PLATING THICKNESS
A63-112-231N435	GOLD FLASH PLATING
A63-113-231N435	15 MICRO INCHES OF GOLD
A63-114-231N435	30 MICRO INCHES OF GOLD

- OPERATING TEMPERATURE: -40°C TO +85°C
- STORAGE TEMPERATURE: -40°C TO +85°C
- MATE WITH MODULAR PLUG CONFORMING TO FCC PART 68, SUBPART F.
- RECOMMENDED TEMPERATURE FOR WAVE SOLDERING IS 260°C MAX, 10 SEC MAX

#### LED SPECIFICATIONS (WITH FORWARD CURRENT OF 20 mA)

STANDARD LED	WAVELENGTH	FORWARD V (MAX)	TYP
GREEN	565 nm	2.4 V	2.2 V
YELLOW	630 nm	2.6 V	2.2 V

## RJ45 MAGNETIC JACK WITH LED, 8P, 8C SHIELDED, 10/100 Mbps FILTER



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ACAD REFERENCE NO.: A63-113-231N435

DRAWN: R.STA.MONICA

DATE: NOV.19/2010

CHECKED:

DATE:

PART NUMBER

SEE NOTE

SHEET 1 OF 3

DRAWING NUMBER

A63-112-231N435

ISSUE

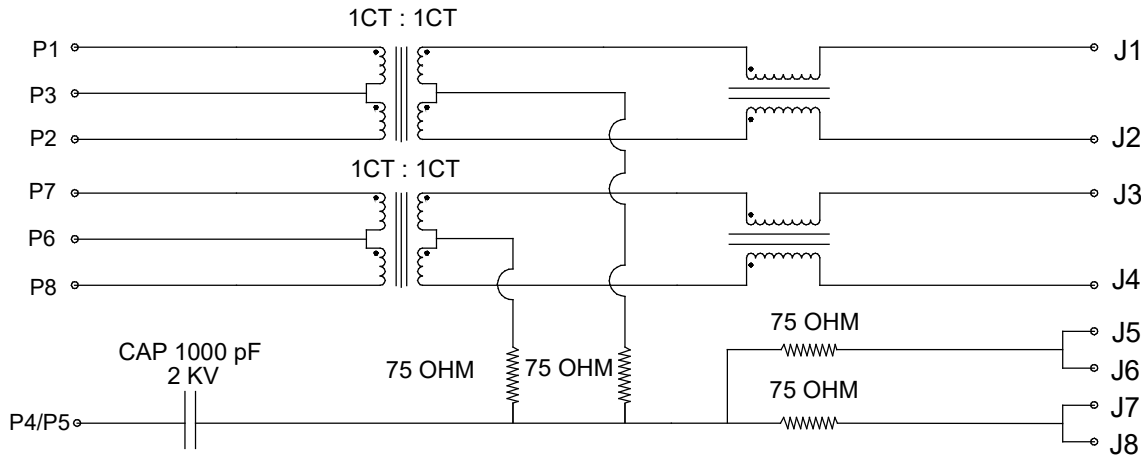
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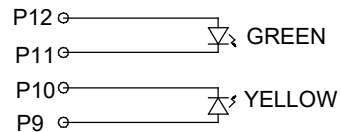
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## ELECTRICAL CIRCUIT:



## LED CIRCUIT:



PIN	YELLOW		GREEN
P9	+	P11	-
P10	-	P12	+

## ELECTRICAL SPECIFICATIONS:

TURN RATIO @ 100KHz:

PRIMARY INDUCTANCE:

DC RESISTANCE:

INSERTION LOSS:

RETURN LOSS:

CROSS TALK:

COMMON TO COMMON

MODE ATTENUATION:

ISOLATION PHY SIDE TO LINE SIDE:

(P1~P2):(J1:J2) = 1:1±5%

(P7~P8):(J3:J6) = 1:1±5%

350µH min @ 100KHz, 0.1V 8mA DC BIAS

(J1~J2):(J3:J6) 1.2dB MAX.

1-100MHz -1.2dB MAX.

1-30MHz -16dB min.

30-60MHz -12dB min.

60-80MHz -10dB min.

1-100MHz -30dB min.

1-100MHz -30dB min.

1500 V AC OR 2250V AC

## RJ45 MAGNETIC JACK WITH LED, 8P, 8C SHIELDED, 10/100 Mbps FILTER



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ACAD REFERENCE NO.: A63-113-231N435

DRAWN: R.STA.MONICA

DATE: NOV.19/2010

CHECKED:

DATE:

PART NUMBER

SEE NOTE

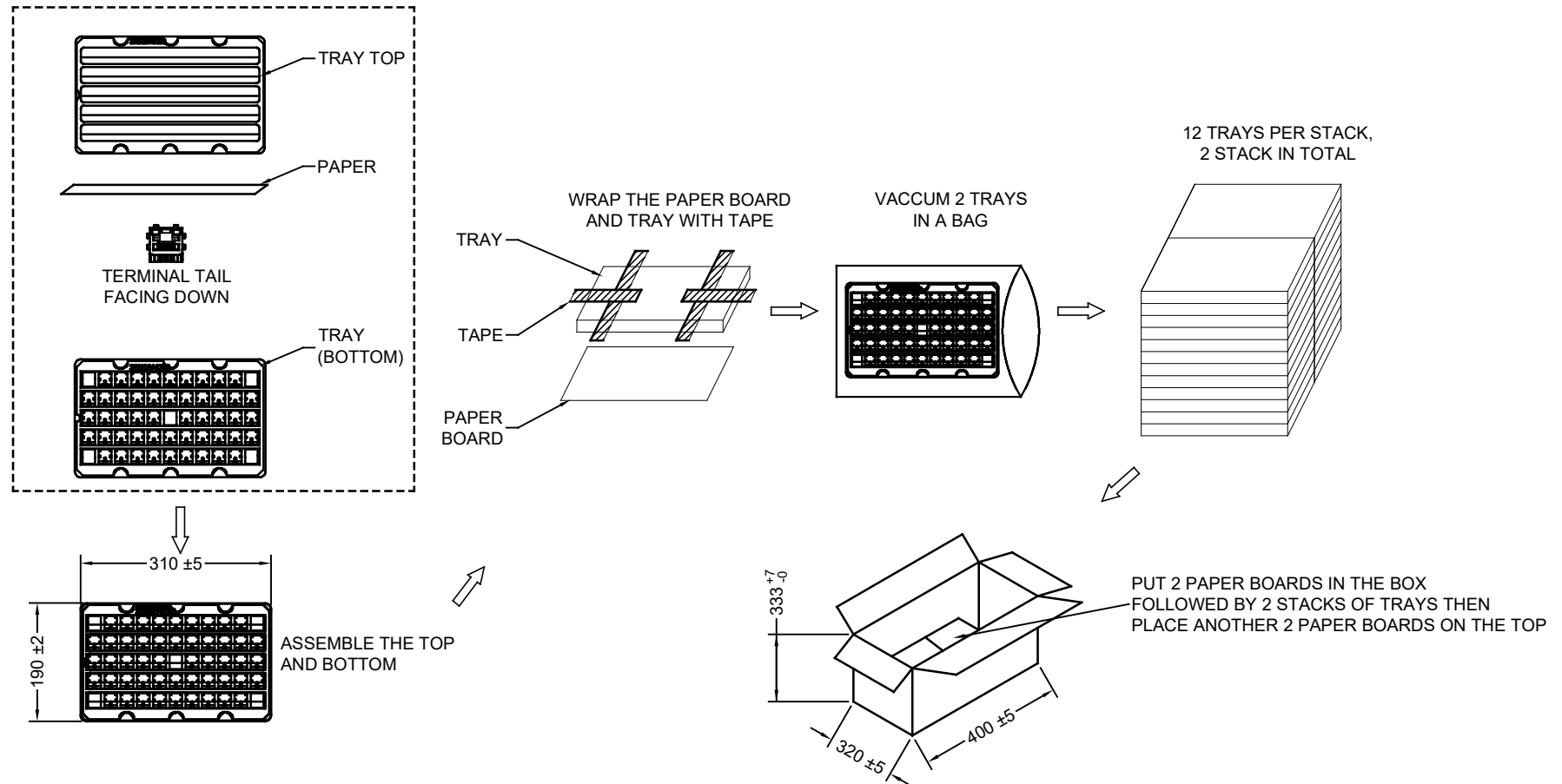
SHEET 2 OF 3

DRAWING NUMBER

A63-112-231N435

ISSUE

5



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## RJ45 MAGNETIC JACK WITH LED, 8P, 8C SHIELDED, 10/100 Mbps FILTER

ACAD REFERENCE NO.: A63-113-231N435

DRAWN: R.STA.MONICA

DATE: NOV.19/2010

CHECKED:

DATE:

PART NUMBER

**SEE NOTE**

SHEET 3 OF 3

DRAWING NUMBER

**A63-112-231N435**

ISSUE

5

GENERAL TOLERANCE UNLESS  
OTHERWISE SPECIFIED IN MM:  
± 0.254 [±.010]

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ISSUE NUMBER

ORIGINAL (1)

ADD "EDAC" LOGO AND  
UPDATE DRAWING (2)  
R.STA.MONICA APR.03/2014

ADD ORDERING CODE  
PART NO. (3)  
R.STA.MONICA JUNE.22/2016

UPDATE GENERAL TOL.  
ELECTRICAL SPECS. (4)  
R.STA.MONICA JUL.07/2016

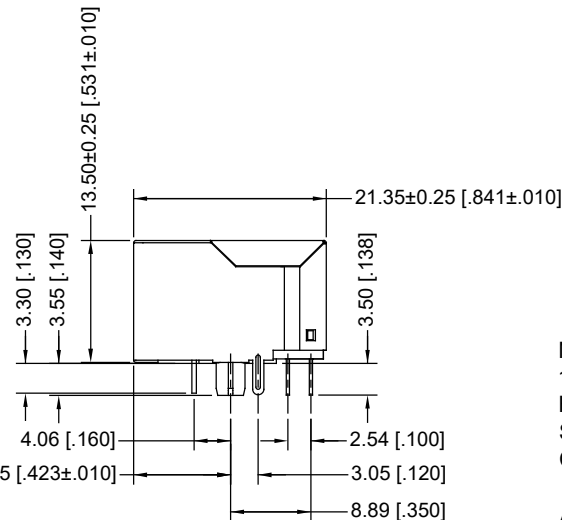
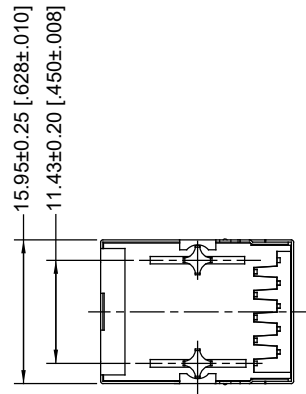
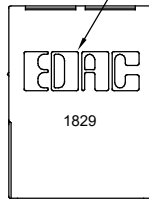
UPDATE LOGO POSITION (5)  
R.STA.MONICA JUL.16/2018

ADD DATE CODE (6)  
Y.ZHANG OCT.12/2018

ADD TRAY DETAIL DWG  
PAGE 3 OF 3 WAS 2 OF 2 (7)  
K.LI AUG.28/2020

UPDATE PACKAGING PAGE (8)  
P.M. MAY.27/2024

LOGO



YELLOW  
LED

GREEN  
LED

ORDERING CODE:

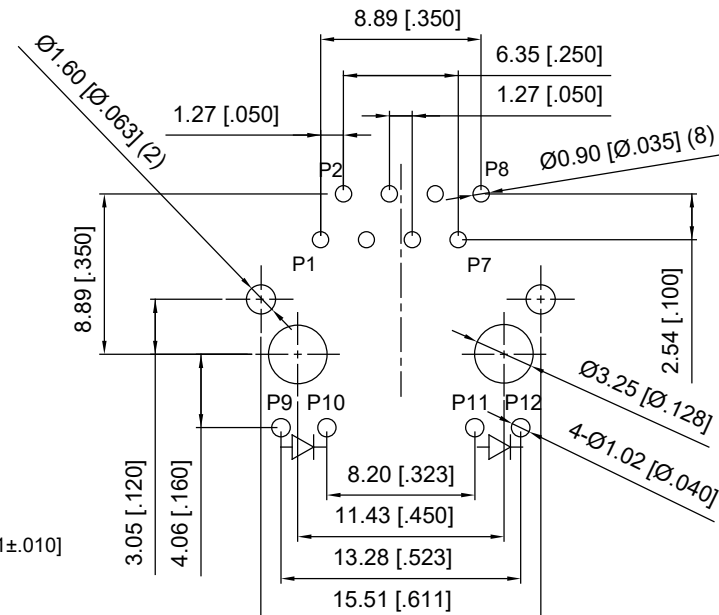
**A63-112-313P190A**

PART NO. SUFFIX: **A**

CONNECTOR PACKAGING IS SUITABLE  
FOR AUTOMATIC ASSEMBLY (100PCS PER TRAY)

BLANK:

NORMAL PACKAGING (60 PCS PER TRAY)



**RECOMMENDED P.C.B. LAYOUT**

TOLERANCE: ±0.10 [±.004]

NOTES:

1. MATERIALS:

HOUSING: THERMOPLASTIC, UL94 V-0, BLACK COLOR

SHIELD: COPPER ALLOY WITH NICKEL PLATING

CONTACTS: COPPER ALLOY PLATED WITH GOLD PLATING AND TIN IN SOLDER AREA

PART NO

GOLD PLATING THICKNESS

A63-112-313P190

GOLD FLASH PLATING

A63-113-313P190

15 MICRO INCHES OF GOLD

A63-114-313P190

30 MICRO INCHES OF GOLD

2. MATE WITH MODULAR PLUG CONFORMING TO FCC PART 68, SUBPART F.

3. RECOMMENDED TEMPERATURE FOR WAVE SOLDERING IS 260°C, 10 SEC MAX

4. OPERATING TEMPERATURE: 0°C TO +70°C

5. STORAGE TEMPERATURE: -40°C TO +85°C

6. DIMENSION: MM [INCHES]

**RJ45 MAGNETIC JACK WITH LED, 8P, 8C  
SHIELDED/10/100 Mbps FILTER**



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ACAD REFERENCE NO.: A63-112-313P190

DRAWN: R.STA.MONICA

DATE: JAN.16/2013

CHECKED: R.STA.MONICA

DATE: AUG.31/2020

PART NUMBER

**SEE NOTE**

SHEET 1 OF 3

DRAWING NUMBER

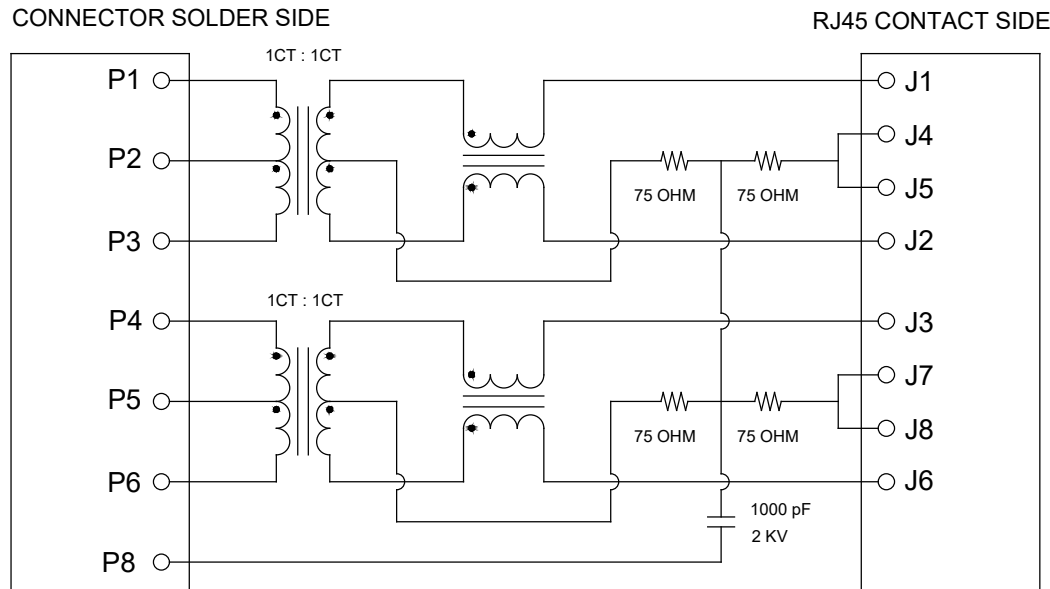
**A63-112-313P190**

ISSUE

8



## ELECTRICAL CIRCUIT:



### TEST NOTES:(25±5°C)

1.TR:(100KHz,0.1V);

PINS:(P1-P3):(J1-J2)=1:1±5%

PINS:(P4-P6):(J3-J6)=1:1±5%

2.LX:(100KHz,100mV,8mA, DC Bias)

PINS: (P1,P3),(P4,P6)=350uH MINIMUM

3.DCR:

PINS:(J1-J2),(J3-J6)= 1.2 OHMS MAXIMUM

4.ISOLATION:

PHY SIDE TO LINE SIDE= 1500VAC OR 2250VDC

5.INSERTION LOSS: RS=RL=100 OHM

-1.2dB MAXIMUM AT 1MHz TO 100MHz;

6.RETURN LOSS:

-16dB MINIMUM AT 1MHz TO 30MHz;

-12dB MINIMUM AT 3MHz TO 60MHz;

-10dB MINIMUM AT 60MHz TO 80MHz

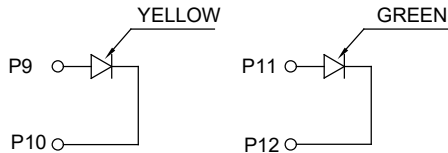
7.CROSS TALK:

-30dB MINIMUM AT 1MHz TO 100MHz

8.COMMON TO COMMON MODE ATTENUATION:

-30dB TYPICAL AT 1MHz TO 100MHz

## LED CIRCUIT:



### LED SPECIFICATIONS (WITH FORWARD CURRENT OF 20 mA)

STANDARD LED	WAVELENGTH	FORWARD V (MAX)	TYP
GREEN	565 nm	2.4 V	2.2 V
YELLOW	590 nm	2.5 V	2.1 V



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## RJ45 MAGNETIC JACK WITH LED, 8P, 8C SHIELDED/10/100 Mbps FILTER



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ACAD REFERENCE NO.: A63-112-313P190

DRAWN:R.STA.MONICA

DATE: JAN.16/2013

CHECKED: R.STA.MONICA

DATE: AUG.31/2020

PART NUMBER

SEE NOTE

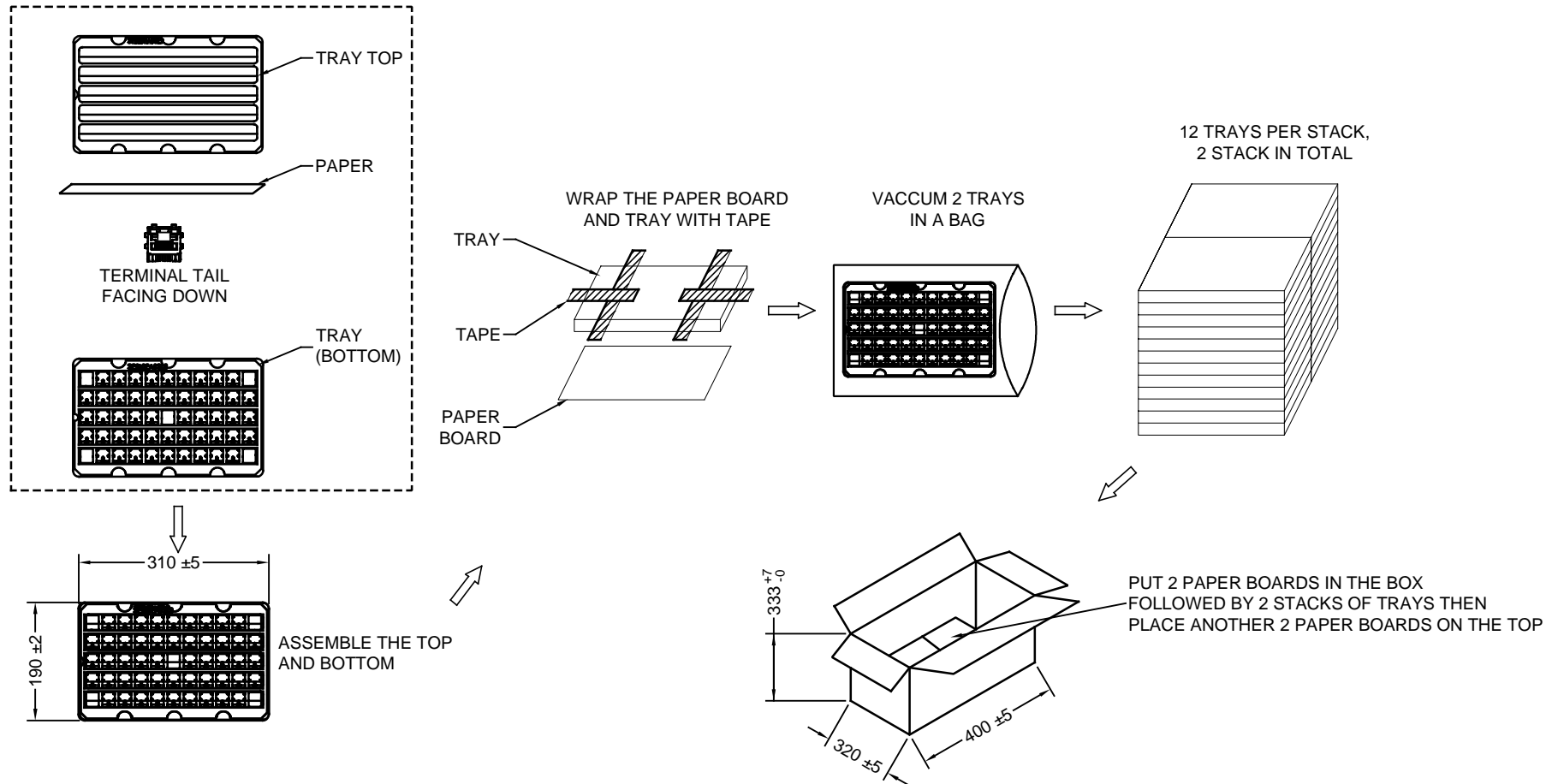
SHEET 2 OF 3

DRAWING NUMBER

A63-112-313P190

ISSUE

8



## RJ45 MAGNETIC JACK WITH LED, 8P, 8C SHIELDED/10/100 Mbps FILTER



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ACAD REFERENCE NO.: A63-112-313P190

DRAWN: R.STA.MONICA

DATE: JAN.16/2013

CHECKED: R.STA.MONICA

DATE: AUG.31/2020

PART NUMBER

**SEE NOTE**

SHEET 3 OF 3

DRAWING NUMBER

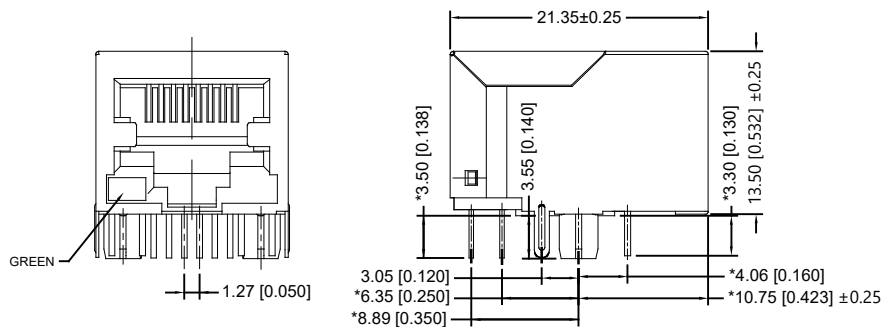
**A63-112-313P190**

ISSUE

8



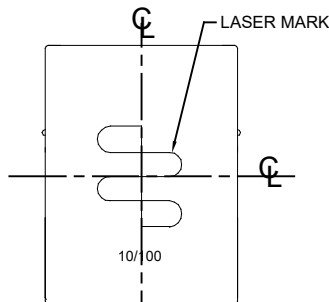
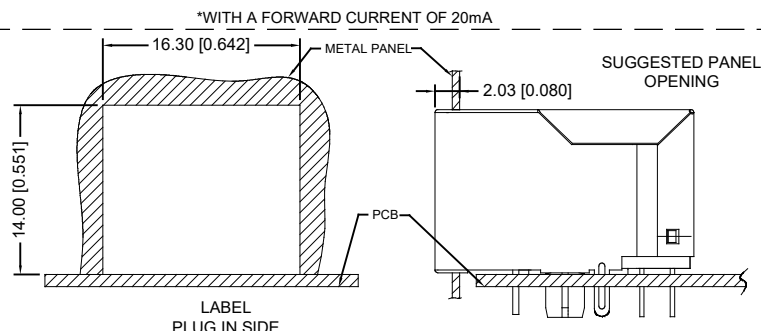
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#### NOTES:

- CONNECTOR MATERIAL:  
HOUSING: PBT BLACK UL94 V-0  
INSERT: PBT BLACK UL94 V-0  
SHIELD: BRASS  
SHIELD PLATING: NICKEL  
CONTACT: COPPER ALLOY  
CONTACT PLATING: SELECTIVE GOLD, 6 MICRO-INCHES MIN IN CONTACT AREA
- PIN NOT ELECTRICALLY CONNECTED MAYBE OMITTED SEE ELECTRICAL DRAWING FOR OMITTED PINS
- RJ45 CAVITIES CONFORM TO FCC RULES AND REGULATION PART 68.
- THE PART IS RECOMMENDED FOR WAVE SOLDERING PROCESS PEAK SOLDERING TEMPERATURE IS 265°C MAX, 10 SECS MAX
- OPERATING TEMPERATURE T= -40°C TO +85°C
- STORAGE TEMPERATURE T= -40°C TO +85°C
- ALL CRITICAL DIMENSIONS WITH " \* "

LED SPECIFICATION			
STANDARD LED	WAVELENGTH	FORWARD V (max)	TYP
GREEN	565nm	2.4V	2.2V



UNIT: mm / INCH  
TOLERANCE: ±0.10 / 0.004

TOLERANCE UNLESS OTHERWISE SPECIFIED
ALL ±0.254

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ISSUE NUMBER	
ORIGINAL	①
ADD PACKAGING PAGE	
P.M.	MAY.27/2024 ②

#### ELECTRICAL SPECIFICATIONS:

TURN RATIO @100KHz: (P1-P3) : (J1 J2) = 1:1 ±5%

(P4-P6) : (J3-J6) = 1:1 ±5%

PRIMARY INDUCTANCE: 350uH MIN @ 100KHZ, 0.1V 8mA DC BIAS

DC RESISTANCE: (J1-J2) : (J3-J6) 1.2 OHMS MAX

INSERTION LOSS: 1-100MHz -1.2dB MAX

RETURN LOSS: 1-30MHz -16dB MIN

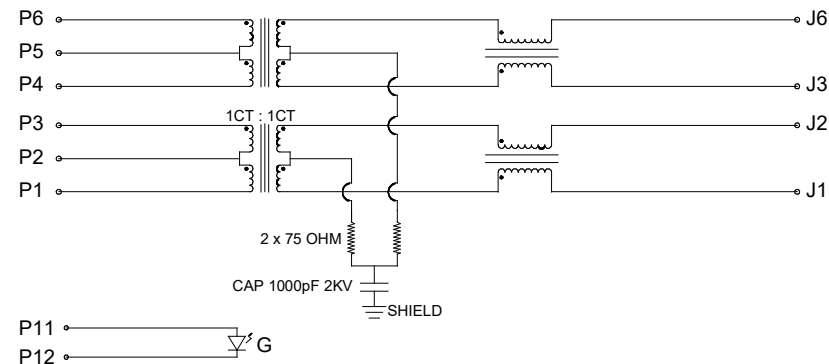
30-60MHz -12dB MIN

60-80MHz -10dB MIN

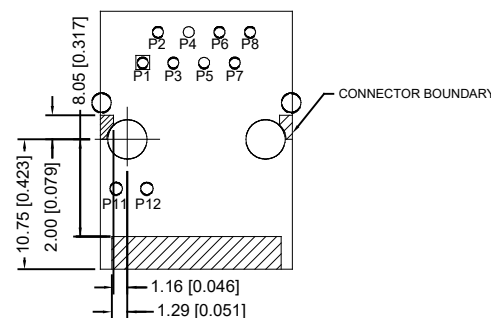
1-100MHz -30dB MIN

CROSS TALK:  
COMMON TO COMMON MODE ATTENUATION: 1-100MHz -30dB MIN

ISOLATION: PHY SIDE TO LINE SIDE: 2250 VDC

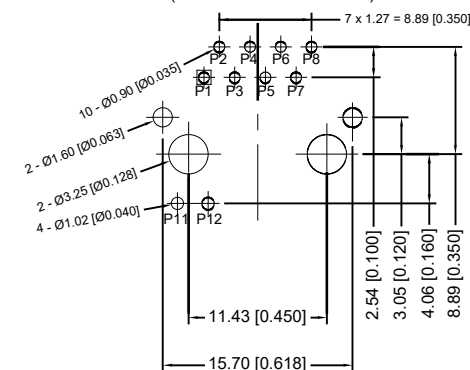


#### KEEP-OUT AREA (COMPONENT SIDE VIEW)



UNIT: mm / INCH  
TOLERANCE: ±0.10 / 0.004

#### RECOMMENDED PWB LAYOUT (COMPONENT SIDE VIEW)



UNIT: mm / INCH  
TOLERANCE: ±0.10 / 0.004



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RJ45, 1X1 PORT, 10/100, R/A

ACAD REFERENCE NO.: A63-112-330N1A6

DRAWN: E.S. DATE: JAN 20/2021

CHECKED: R.S.M. DATE: JAN 20/2021

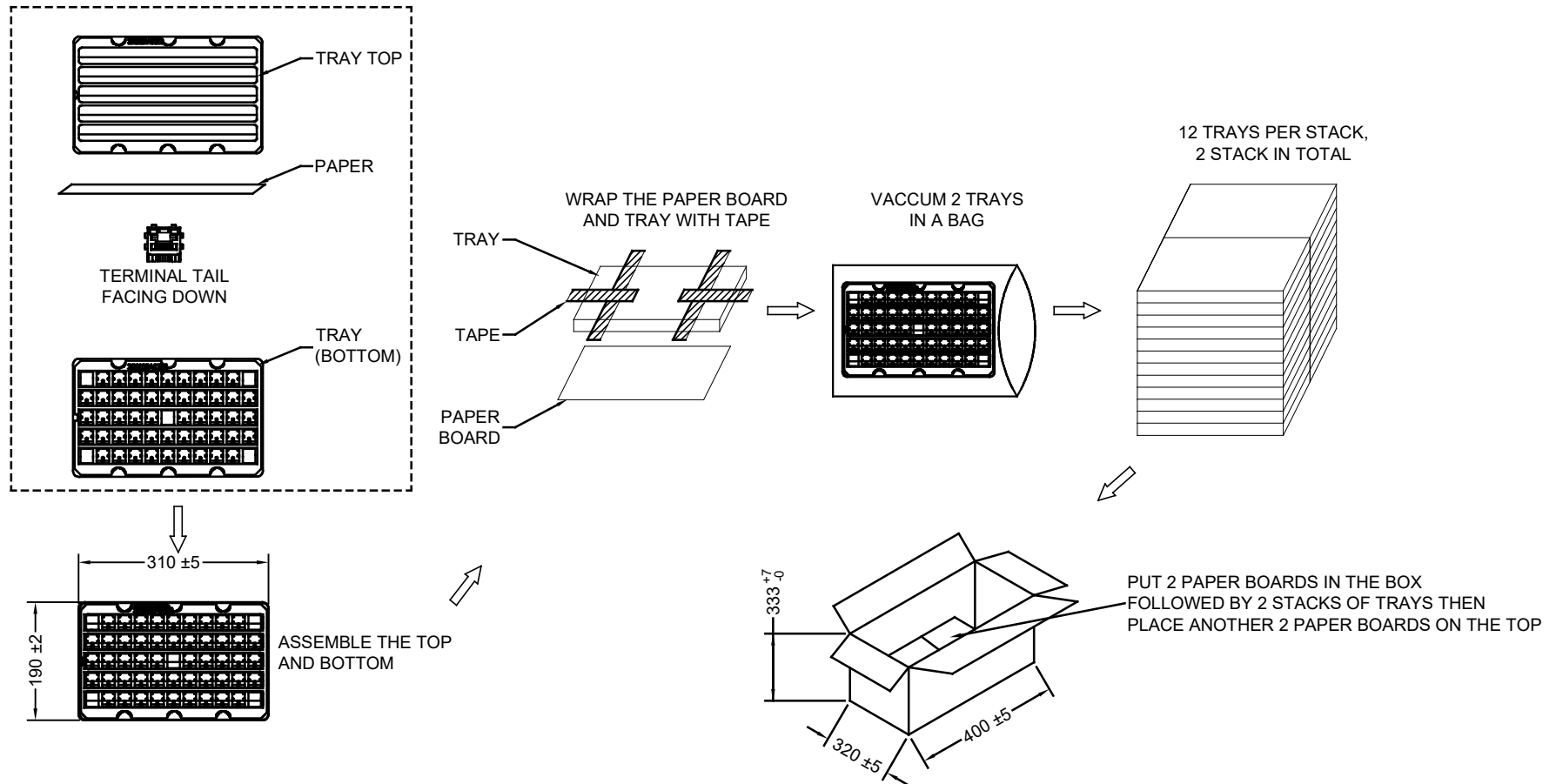
SCALE: NTS SHEET 1 OF 2

DRAWING NUMBER: A63-112-330N1A6

PART NUMBER: A63-112-330N1A6

ISSUE

2



## RJ45 MAGNETIC JACK WITH LED, 8P, 8C SHIELDED/10/100 Mbps FILTER

ACAD REFERENCE NO.: A63-112-330N1A6

DRAWN: R.STA.MONICA

DATE: NOV.19/2010

CHECKED:

DATE:

PART NUMBER

SEE NOTE

SHEET 2 OF 2

DRAWING NUMBER

A63-112-330N1A6

ISSUE

2



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TOLERANCE UNLESS OTHERWISE  
SPECIFIED IN MM:  
0.0 ± 0.38  
0.00 ± 0.25  
0.000 ± 0.10

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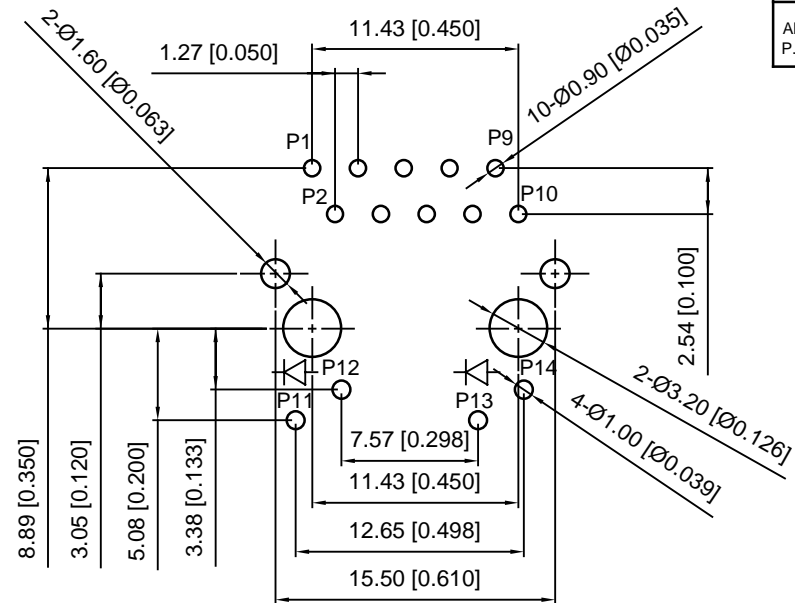
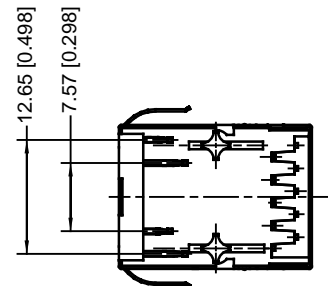
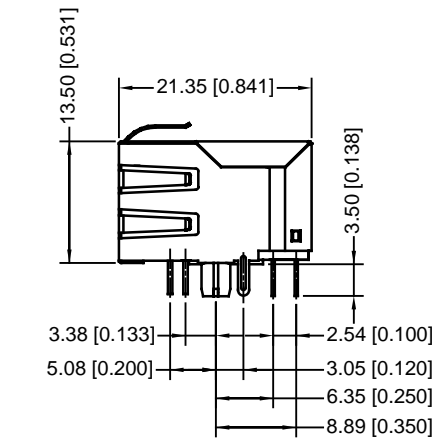
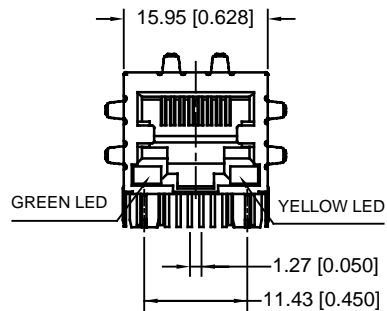


ISSUE NUMBER

ORIGINAL ①

UPDATE DRAWING ②  
R.STA.MONICA OCT.14/2011

ADD PACKAGING PAGE ③  
P.M. MAY.18/2024



### RECOMMENDED P.C.B. LAYOUT

TOLERANCE:  $\pm 0.08[\pm 0.003]$

#### NOTES:

##### 1. MATERIALS:

HOUSING: HIGH TEMPERATURE 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

A63-112-331P4D2

A63-113-331P4D2

A63-114-331P4D2

#### GOLD PLATING THICKNESS

GOLD FLASH PLATING

15 MICRO INCHES OF GOLD

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]

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



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ACAD REFERENCE NO.: A63-112-331P4D2

DRAWN: R.STA.MONICA

DATE: JAN.26/2011

CHECKED:

DATE:

PART NUMBER

SEE NOTE

SHEET 1 OF 3

DRAWING NUMBER

A63-112-331P4D2

ISSUE

3

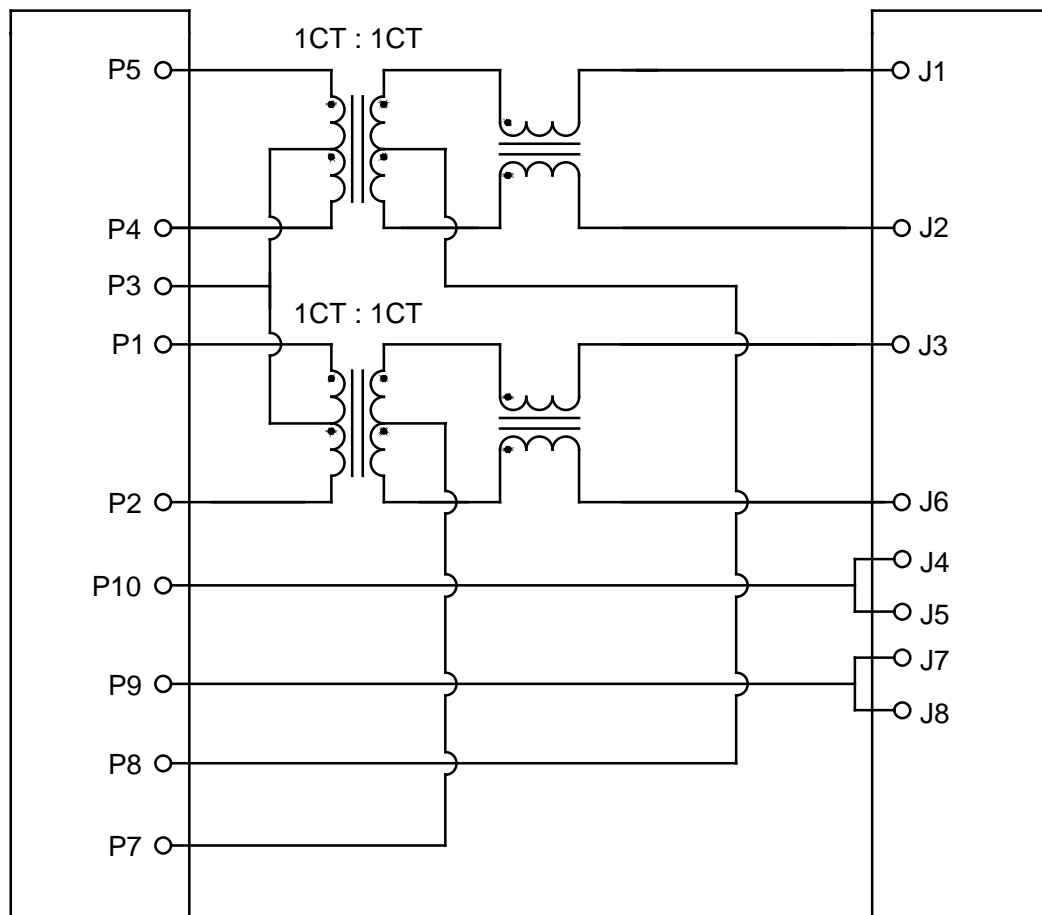


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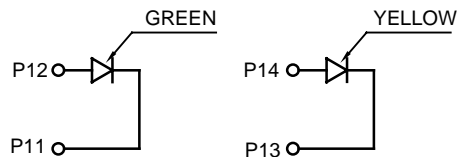
# ELECTRICAL CIRCUIT:

CONNECTOR SOLDER SIDE

RJ45 CONTACT SIDE



## LED CIRCUIT:



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## TEST NOTES:(25±5°C)

- 1.TR:(100KHz,0.1V);  
PINS:(P4-P5):(J1-J2)=1:1±3%  
PINS:(P1-P2):(J3-J6)=1:1±3%
- 2.LX:(100KHz,100mV,8mA, DC Bias)  
PINS: (P1,P2),(P4,P5)=350uH MINIMUM
- 3.DC RESISTANCE:  
PINS:(J1-J2),(J3-J6)= 1.2 OHMS MAXIMUM
- 4.HIPOT:  
PINS(P5,P4)TO(J1,J2)= 1500VAC OR 2250VDC  
PINS(P1,P2)TO(J3,J6)= 1500VAC OR 2250VDC
- 5.INSERTION LOSS: RS = RL = 100 OHM  
-1.2dB MAXIMUM AT 100KHz TO 100MHz;
- 6.RETURN LOSS:  
-18dB MINIMUM AT 1MHz TO 30MHz  
-(18-20Log(f/30MHz))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: P4-P5, WITH J1-J2 SHORTED=0.35 uH MAX @1MHz  
PINS: P1-P2, WITH J3-J6 SHORTED=0.35 uH MAX @1MHz
10. INTERWINDING CAPACITANCE:  
PINS:(P4-P5):(J1-J2)= 35 pF MAX @1MHz  
PINS:(P1-P2):(J3-J6)= 35 pF MAX @1MHz

## LED SPECIFICATIONS (WITH FORWARD CURRENT OF 20 mA)

STANDARD LED	WAVELENGTH	FORWARD V (MAX)	TYP
GREEN	565 nm	2.4 V	2.2 V
YELLOW	590 nm	2.5 V	2.1 V

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



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ACAD REFERENCE NO.: A63-112-331P4D2

DRAWN: R.STA.MONICA

DATE: JAN.26/2011

CHECKED:

DATE:

PART NUMBER

SEE NOTE

SHEET 2 OF 3

DRAWING NUMBER

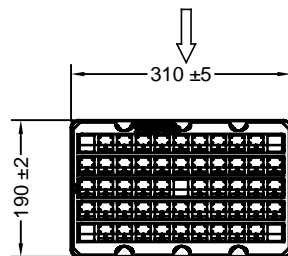
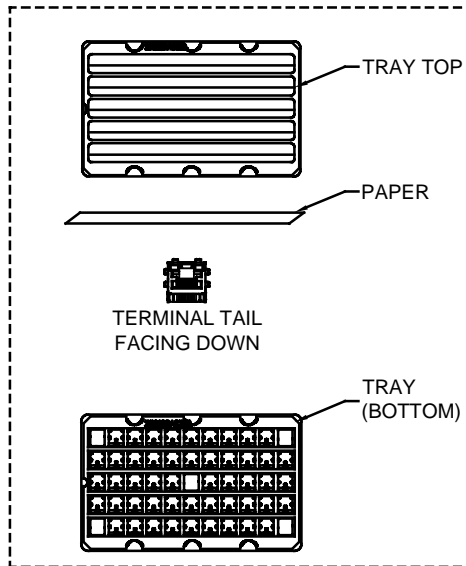
A63-112-331P4D2

ISSUE

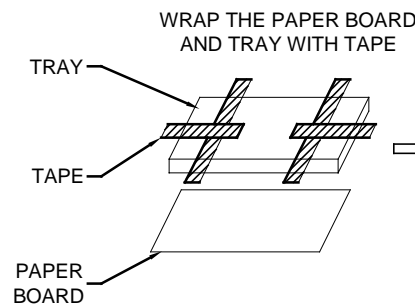
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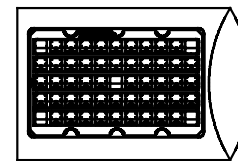
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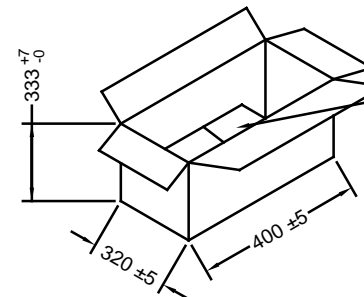
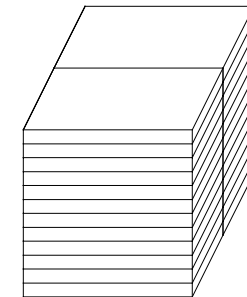
ASSEMBLE THE TOP  
AND BOTTOM



VACCUM 2 TRAYS  
IN A BAG



12 TRAYS PER STACK,  
2 STACK IN TOTAL



PUT 2 PAPER BOARDS IN THE BOX  
FOLLOWED BY 2 STACKS OF TRAYS THEN  
PLACE ANOTHER 2 PAPER BOARDS ON THE TOP

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



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DRAWN: R.STA.MONICA

DATE: JAN.26/2011

CHECKED:

DATE:

PART NUMBER

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SHEET 3 OF 3

DRAWING NUMBER

A63-112-331P4D2

ISSUE

3



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

ANGLE °

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ISSUE NUMBER

ORIGINAL

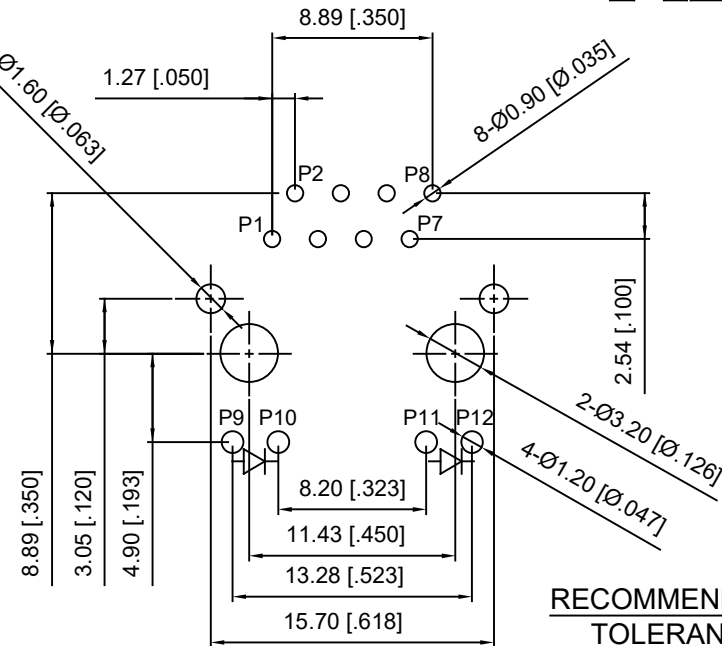
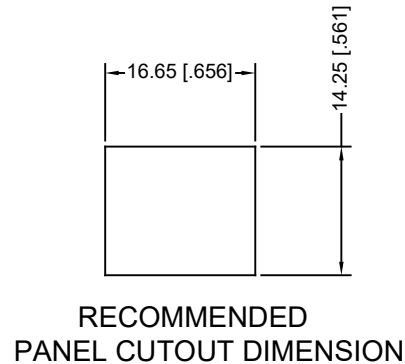
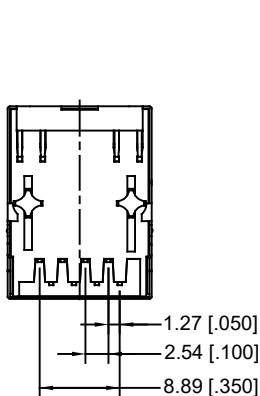
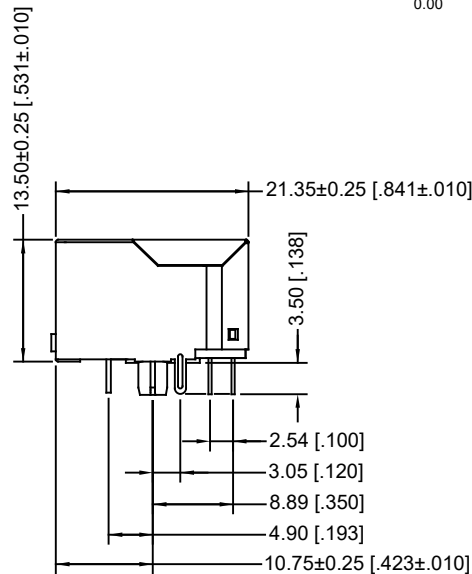
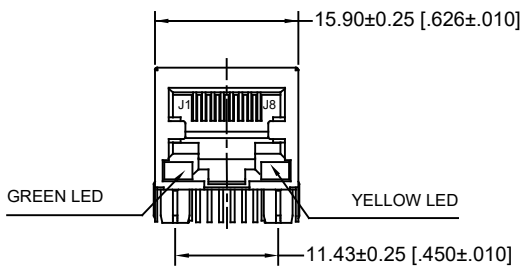
ADD PACKAGING PAGE

P.M. MAY, 19/2024

1

2

ISSUE  
2



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

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
A63-112-331P122	GOLD FLASH PLATING
A63-113-331P122	15 MICRO INCHES OF GOLD
A63-114-331P122	30 MICRO INCHES OF GOLD
A63-115-331P122	50 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]



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ACAD REFERENCE NO.: A63-112-331P122

DRAWN: R.STA.MONICA

DATE: NOV.22/2011

CHECKED:

DATE:

PART NUMBER

SEE NOTE

SHEET 1 OF 3

DRAWING NUMBER

A63-112-331P122

ISSUE

2

# ELECTRICAL CIRCUIT:

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

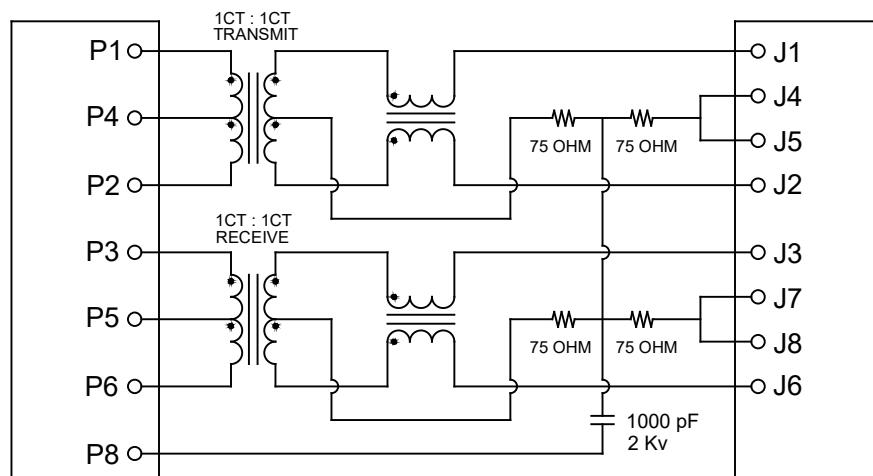
ANGLE x°

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## CONNECTOR SOLDER SIDE

## RJ45 CONTACT SIDE



## TEST NOTES:(25±5°C)

1.TR:(100KHz,0.1V);

PINS:(P1-P2):(J1-J2)=1:1±5%

PINS:(P3-P6):(J3-J6)=1:1±5%

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.HI POT:

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:

-16dB MINIMUM AT 1MHz TO 30MHz;

-12dB MINIMUM AT 30MHz TO 60MHz

-10dB MINIMUM AT 60MHz TO 80MHz

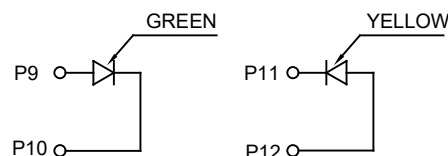
7.CROSS TALK:

-30dB MIN AT 1MHz TO 100MHz

8.COMMON TO COMMON MODE ATENUATION:

-30dB TYPICAL AT 30MHz TO 100MHz

## LED CIRCUIT:



## LED SPECIFICATIONS (WITH FORWARD CURRENT OF 20 mA)

STANDARD LED	WAVELENGTH	FORWARD V (MAX)	TYP
GREEN	565 nm	2.4 V	2.2 V
YELLOW	590 nm	2.5 V	2.1 V

## RJ45 MAGNETIC JACK WITH LED, 8P, 8C WITHOUT EMI FINGER, SHIELDED/10/100 Mbps



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ACAD REFERENCE NO.: A63-112-331P122

DRAWN: R.STA.MONICA

DATE: NOV.22/2011

CHECKED:

DATE:

PART NUMBER

SEE NOTE

SHEET 2 OF 3

DRAWING NUMBER

A63-112-331P122

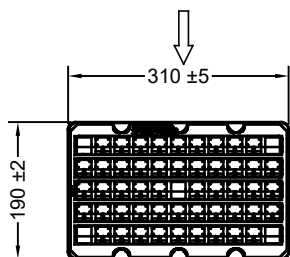
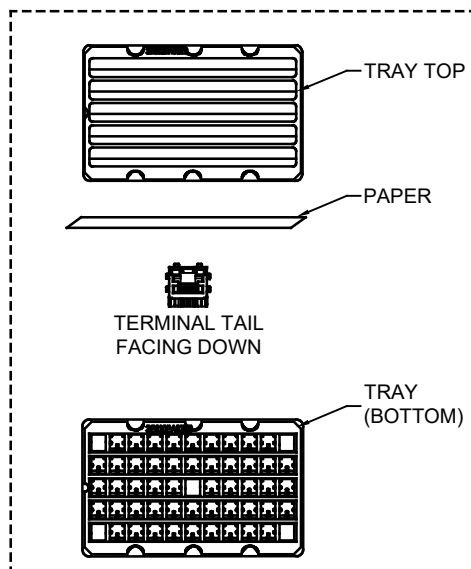
ISSUE

2

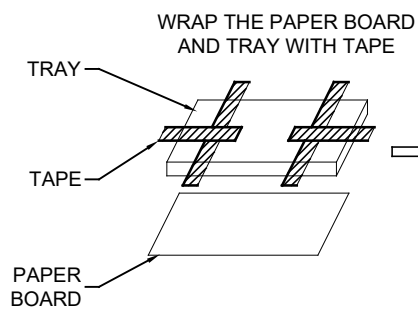
# ELECTRICAL CIRCUIT:

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

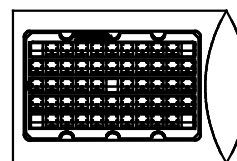
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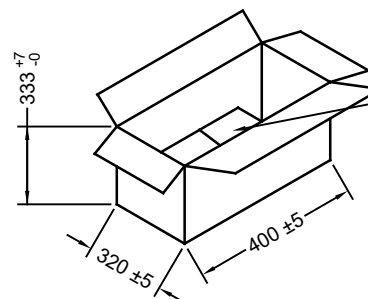
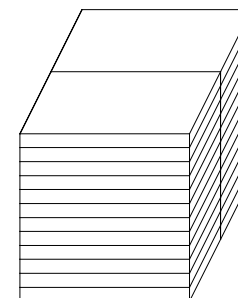
ASSEMBLE THE TOP  
AND BOTTOM



VACCUM 2 TRAYS  
IN A BAG



12 TRAYS PER STACK,  
2 STACK IN TOTAL



PUT 2 PAPER BOARDS IN THE BOX  
FOLLOWED BY 2 STACKS OF TRAYS THEN  
PLACE ANOTHER 2 PAPER BOARDS ON THE TOP



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ACAD REFERENCE NO.: A63-112-331P122

DRAWN: R.STA.MONICA

DATE: NOV.22/2011

CHECKED:

DATE:

PART NUMBER

SEE NOTE

SHEET 3 OF 3

DRAWING NUMBER

A63-112-331P122

ISSUE

2

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

ANGLE °

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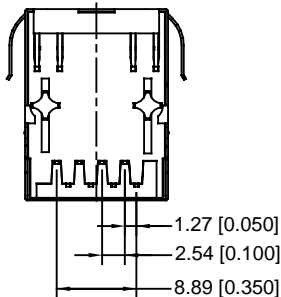
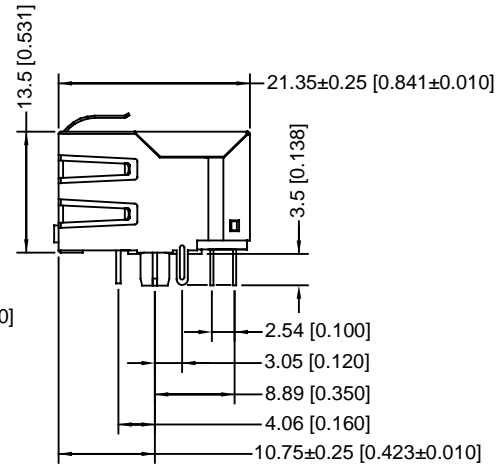
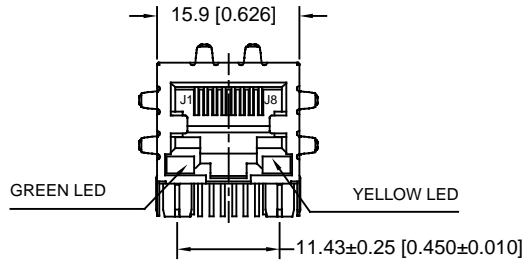
ISSUE NUMBER

ORIGINAL

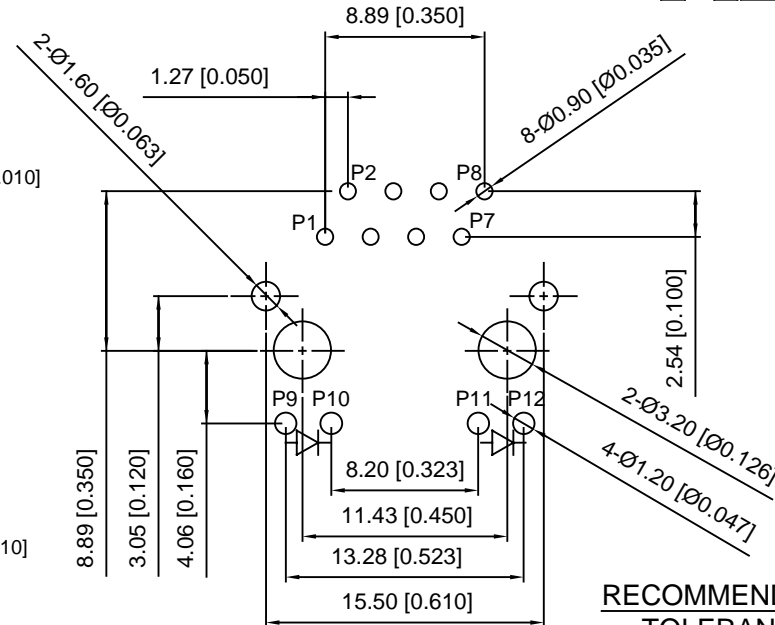
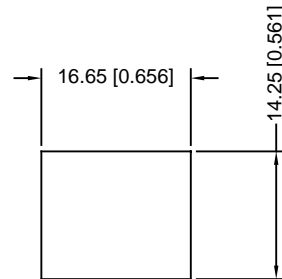
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ADD PACKAGING PAGE  
P.M. MAY.18/2024

②



RECOMMENDED  
PANEL CUTOUT DIMENSION



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

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

A63-112-331P422

A63-113-331P422

A63-114-331P422

A63-115-331P422

GOLD PLATING THICKNESS

GOLD FLASH PLATING

15 MICRO INCHES OF GOLD

30 MICRO INCHES OF GOLD

50 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]

RJ45 MAGNETIC JACK WITH LED, 8P, 8C  
SHIELDED/10/100 Mbps FILTER

ACAD REFERENCE NO.: A63-113-331P422

DRAWN: R.STA.MONICA

DATE: OCT. 18/2011

CHECKED:

DATE:

PART NUMBER

SEE NOTE

SHEET 1 OF 3

DRAWING NUMBER

A63-112-331P422

ISSUE

2



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# ELECTRICAL CIRCUIT:

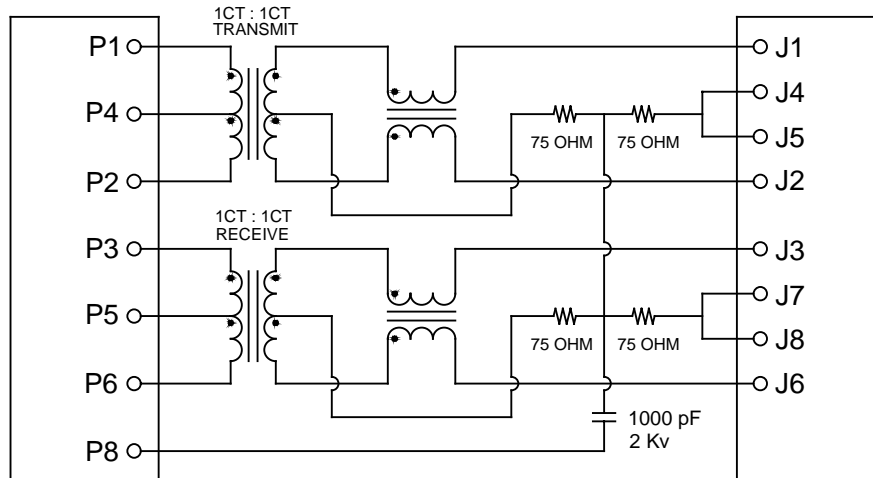
TOLERANCE UNLESS OTHERWISE  
SPECIFIED IN MM:  
0 ± 0.38  
0.0 ± 0.25  
0.00 ± 0.10

THIS IS A C.A.D. GENERATED DRAWING  
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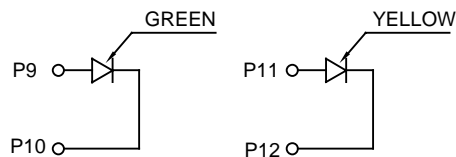


## CONNECTOR SOLDER SIDE

## RJ45 CONTACT SIDE



## LED CIRCUIT:



LED SPECIFICATIONS (WITH FORWARD CURRENT OF 20 mA)			
STANDARD LED	WAVELENGTH	FORWARD V (MAX)	TYP
GREEN	565 nm	2.4 V	2.2 V
YELLOW	590 nm	2.5 V	2.1 V

## 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 ATTENUATION:

-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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## RJ45 MAGNETIC JACK WITH LED, 8P, 8C SHIELDED/10/100 Mbps FILTER

ACAD REFERENCE NO.: A63-113-331P422

DRAWN: R.STA.MONICA

DATE: OCT. 18/2011

CHECKED:

DATE:

PART NUMBER

SEE NOTE

SHEET 2 OF 3

DRAWING NUMBER

A63-112-331P422

ISSUE

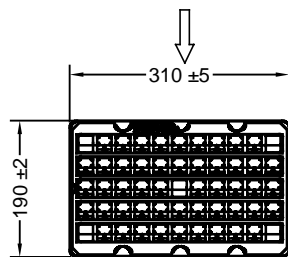
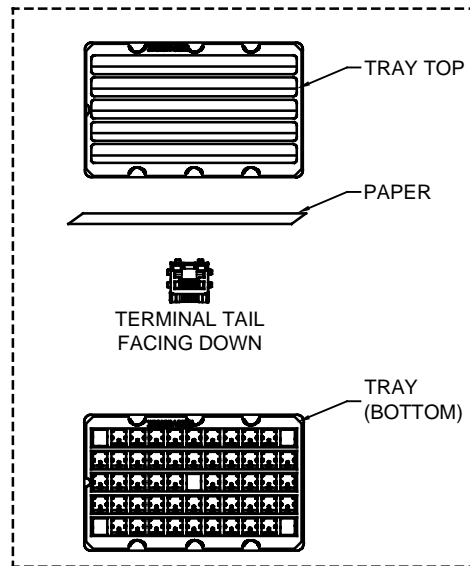
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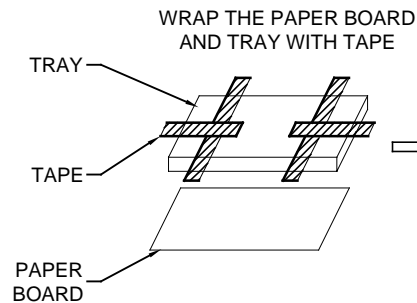
TOLERANCE UNLESS OTHERWISE  
SPECIFIED IN MM:  
0 ± 0.38  
0.0 ± 0.25  
0.00 ± 0.10

ANGLE x°

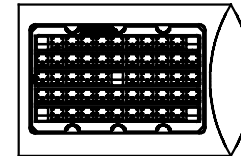
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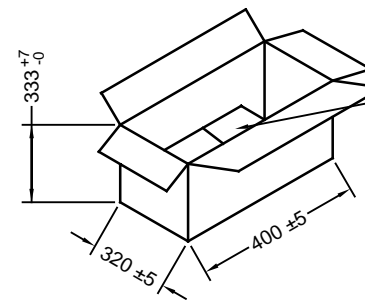
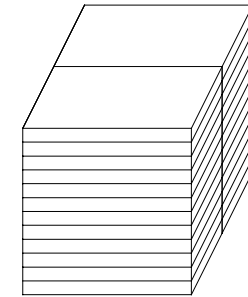
ASSEMBLE THE TOP  
AND BOTTOM



VACCUM 2 TRAYS  
IN A BAG



12 TRAYS PER STACK,  
2 STACK IN TOTAL



PUT 2 PAPER BOARDS IN THE BOX  
FOLLOWED BY 2 STACKS OF TRAYS THEN  
PLACE ANOTHER 2 PAPER BOARDS ON THE TOP

## RJ45 MAGNETIC JACK WITH LED, 8P, 8C SHIELDED/10/100 Mbps FILTER



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ACAD REFERENCE NO.: A63-113-331P422

DRAWN: R.STA.MONICA

DATE: OCT. 18/2011

CHECKED:

DATE:

PART NUMBER

**SEE NOTE**

SHEET 3 OF 3

DRAWING NUMBER

**A63-112-331P422**

ISSUE

2

TOLERANCE UNLESS OTHERWISE  
SPECIFIED IN MM:  
0.0 ± 0.38  
0.00 ± 0.25  
0.000 ± 0.10

ANGLE °

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ISSUE NUMBER

ORIGINAL

①

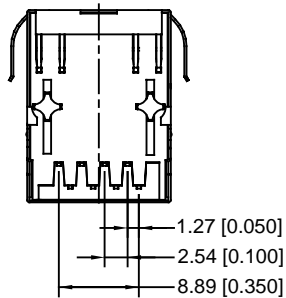
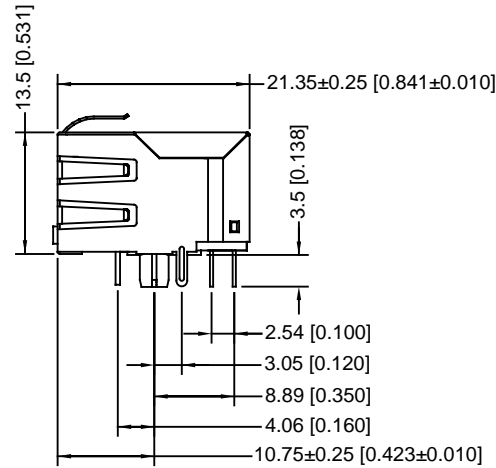
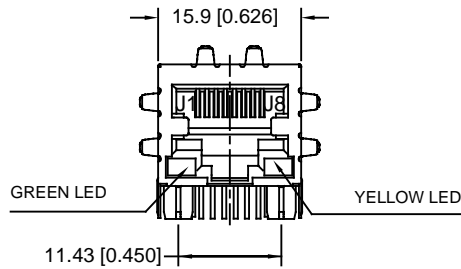
UPDATE DRAWING

R.STA.MONICA SEPT.23/2011

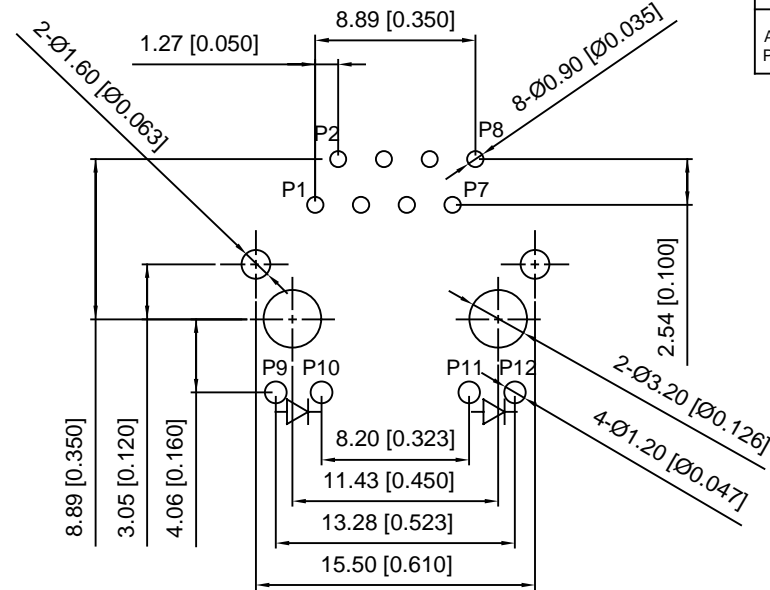
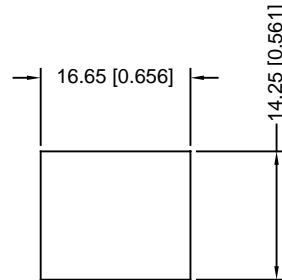
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ADD PACKAGING PAGE  
P.M. MAY.18/2024

③



RECOMMENDED  
PANEL CUTOUT DIMENSION



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

NOTES:

1. MATERIALS:

HOUSING: THERMOPLASTIC PBT, UL94 V-0, COLOR: BLACK

CONTACTS: COPPER ALLOY PLATED WITH GOLD PLATING AND TIN IN SOLDER AREA

PART NO

A63-112-331P431

A63-113-331P431

A63-114-331P431

GOLD PLATING THICKNESS

GOLD FLASH PLATING

15 MICRO INCHES OF GOLD

30 MICRO INCHES OF GOLD

SHIELD: COPPER ALLOY WITH NICKEL PLATING

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]

RJ45 MAGNETIC JACK WITH LED, 8P, 8C  
SHIELDED/10/100 Mbps FILTER

ACAD REFERENCE NO.: A63-112-331P431

DRAWN: R.STA.MONICA

DATE: NOV.19/2010

CHECKED:

DATE:

PART NUMBER

SEE NOTE

SHEET 1 OF 3

DRAWING NUMBER

A63-112-331P431

ISSUE

3



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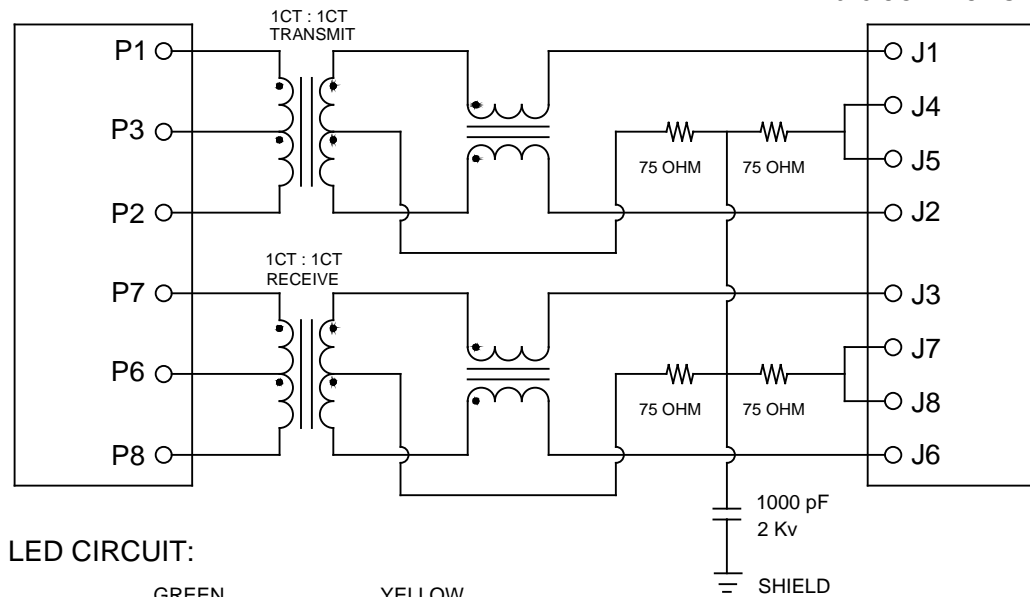
## ELECTRICAL CIRCUIT:

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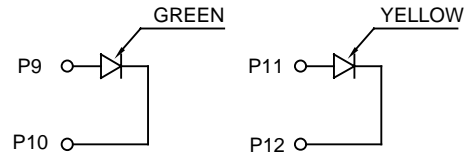


### CONNECTOR SOLDER SIDE

### RJ45 CONTACT SIDE



### LED CIRCUIT:



### LED SPECIFICATIONS (WITH FORWARD CURRENT OF 20 mA)

STANDARD LED	WAVELENGTH	FORWARD V (MAX)	TYP
GREEN	565 nm	2.4 V	2.2 V
YELLOW	590 nm	2.5 V	2.1 V

### TEST NOTES:(25±5°C)

- 1.TR:(100KHz,0.1V);  
PINS:(P1-P2):(J1-J2)=1:1±3%  
PINS:(P7-P8):(J3-J6)=1:1±3%
- 2.LX:(100KHz,100mV,8mA, DC Bias)  
PINS: (P1,P2),(P7,P8)=350uH MINIMUM
- 3.DCR:  
PINS:(J1-J2),(J3-J6)= 1.2 OHMS MAXIMUM
- 4.HIPOT:  
PINS(P1,P2)TO(J1,J2)=1500VAC OR 2250VDC  
PINS(P7,P8)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 REJECTION:  
-30dB TYPICAL AT 30MHz TO 100MHz
9. LEAKAGE INDUCTANCE:  
PINS: P1-P2, WITH J1-J2 SHORTED=0.35 uH MAX @1MHz  
PINS: P7-P8, WITH J3-J6 SHORTED=0.35 uH MAX @1MHz
10. INTERWINDING CAPACITANCE:  
PINS:(P1-P2):(J1-J2)= 35 pF MAX @1MHz  
PINS:(P7-P8):(J3-J6)= 35 pF MAX @1MHz

## RJ45 MAGNETIC JACK WITH LED, 8P, 8C SHIELDED/10/100 Mbps FILTER



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ACAD REFERENCE NO.: A63-112-331P431

DRAWN: R.STA.MONICA

DATE: NOV.19/2010

CHECKED:

DATE:

PART NUMBER

SEE NOTE

SHEET 2 OF 3

DRAWING NUMBER

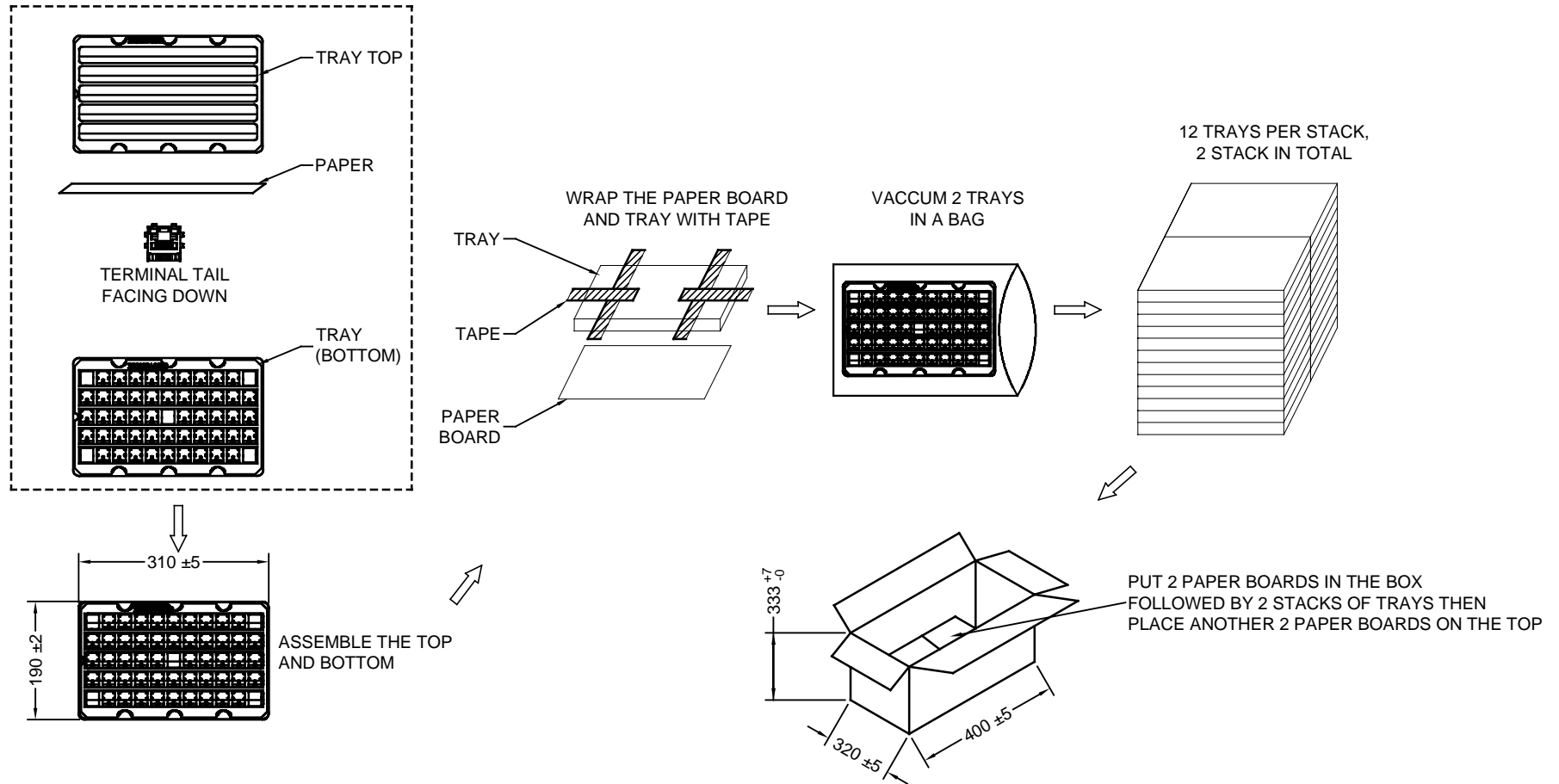
A63-112-331P431

ISSUE

3



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# RJ45 MAGNETIC JACK WITH LED, 8P, 8C SHIELDED/10/100 Mbps FILTER

ACAD REFERENCE NO.: A63-112-331P431

DRAWN: R.STA.MONICA

DATE: NOV.19/2010

CHECKED:

DATE:

PART NUMBER

SEE NOTE

SHEET 3 OF 3

DRAWING NUMBER

A63-112-331P431

ISSUE

3



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

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ISSUE NUMBER

ORIGINAL

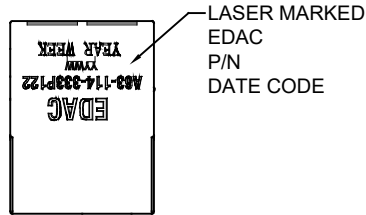
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ADD LASER MARKING  
R.STA.MONICA AUG.13/2015

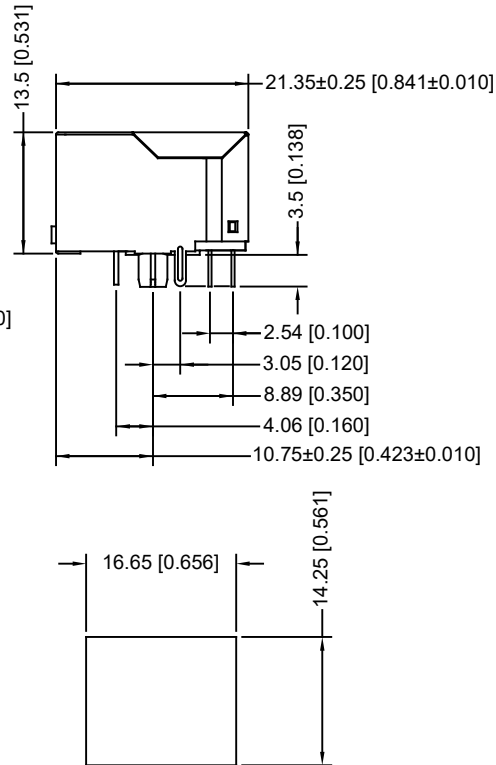
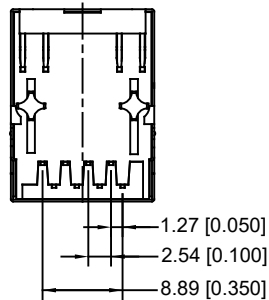
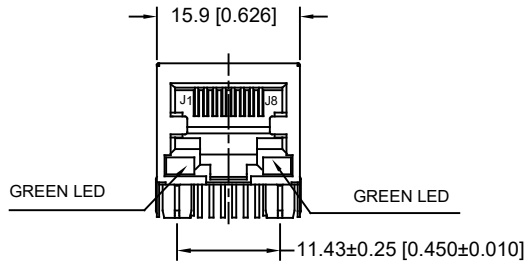
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ADD PACKAGING PAGE  
P.M. MAY.18/2024

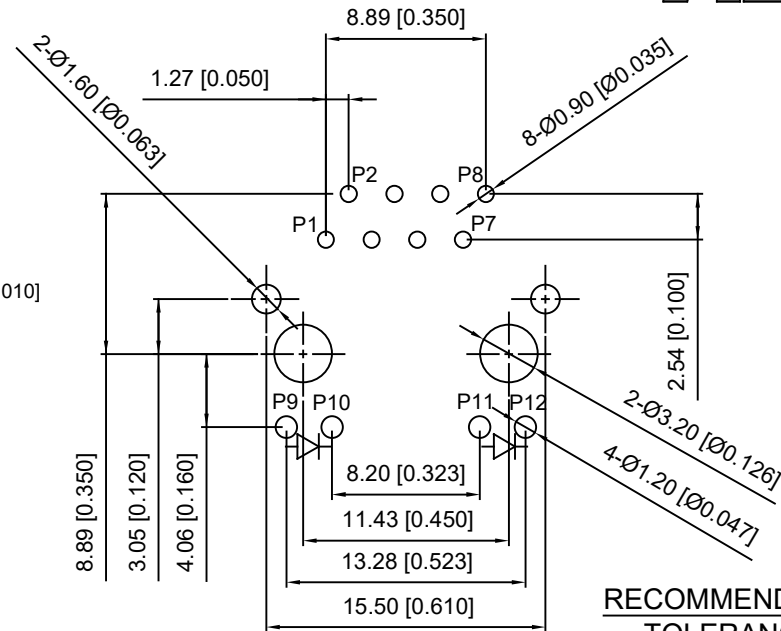
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LASER MARKED  
EDAC  
P/N  
DATE CODE



RECOMMENDED  
PANEL CUTOUT DIMENSION



RECOMMENDED P.C.B. LAYOUT  
TOLERANCE:  $\pm 0.08[\pm 0.003]$

NOTES:

1. MATERIALS:

HOUSING: THERMOPLASTIC, UL 94V-0, COLOR: BLACK

SHIELD: BRASS WITH NICKEL PLATING

CONTACTS: COPPER ALLOY PLATED WITH GOLD PLATING AND TIN IN SOLDER AREA

PART NO	GOLD PLATING THICKNESS
A63-112-333P122	GOLD FLASH PLATING
A63-113-333P122	15 MICRO INCHES OF GOLD
A63-114-333P122	30 MICRO INCHES OF GOLD
A63-115-333P122	50 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]

RJ45 MAGNETIC JACK WITH LED, 8P, 8C  
WITHOUT EMI FINGER, SHIELDED/10/100 Mbps

ACAD REFERENCE NO.: A63-112-333P122

DRAWN: R.STA.MONICA

DATE: FEB.26/2014

CHECKED:

DATE:

PART NUMBER

SEE NOTE

SHEET 1 OF 3

DRAWING NUMBER

A63-112-333P122

ISSUE

3



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# ELECTRICAL CIRCUIT:

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

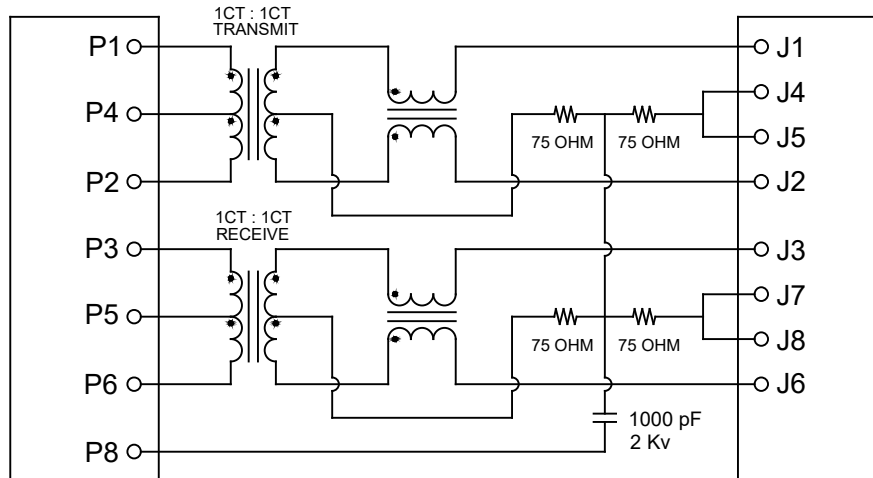
ANGLE x°

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## CONNECTOR SOLDER SIDE

## RJ45 CONTACT SIDE



## TEST NOTES:(25±5°C)

1.TR:(100KHz,0.1V);

PINS:(P1-P2):(J1-J2)=1:1±5%

PINS:(P3-P6):(J3-J6)=1:1±5%

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.ISOLATION PHY SIDE TO LINE SIDE: 1500VAC OR 2250VDC

5.INSERTION LOSS:

-1.2dB MAXIMUM AT 100KHz TO 100MHz;

6.RETURN LOSS:

-16dB MINIMUM AT 1MHz TO 30MHz;

-12dB MINIMUM AT 30MHz TO 60MHz

-10dB MINIMUM AT 60MHz TO 80MHz

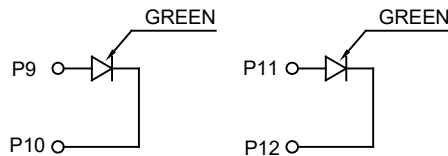
7.CROSS TALK:

-30dB TYPICAL AT 1MHz TO 100MHz

8.COMMON TO COMMON MODE ATENUATION:

-30dB TYPICAL AT 1MHz TO 100MHz

## LED CIRCUIT:



## LED SPECIFICATIONS (WITH FORWARD CURRENT OF 20 mA)

STANDARD LED	WAVELENGTH	FORWARD V (MAX)	TYP
GREEN	565 nm	2.4 V	2.2 V

## RJ45 MAGNETIC JACK WITH LED, 8P, 8C WITHOUT EMI FINGER, SHIELDED/10/100 Mbps



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DATE: FEB.26/2014

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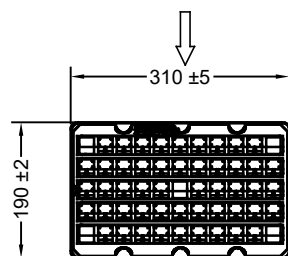
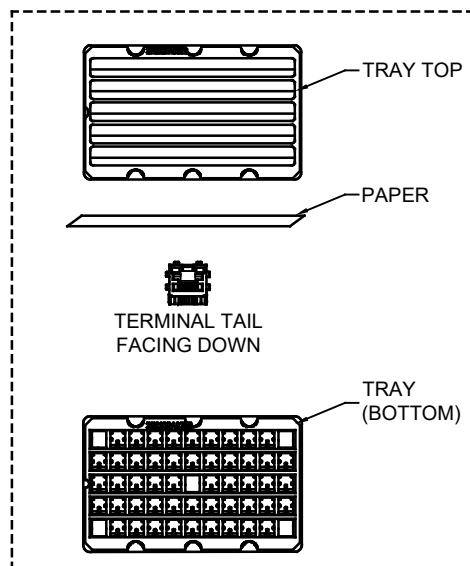
ISSUE

3

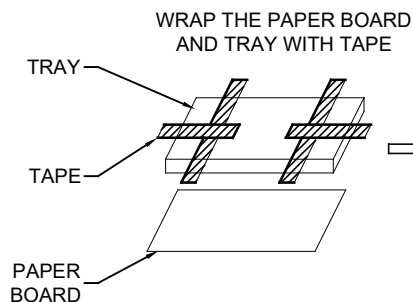
TOLERANCE UNLESS OTHERWISE  
SPECIFIED IN MM:  
0 ± 0.38  
0.0 ± 0.25  
0.00 ± 0.10

ANGLE x°

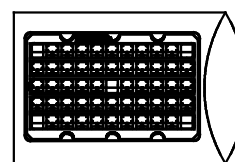
THIS IS A C.A.D. GENERATED DRAWING  
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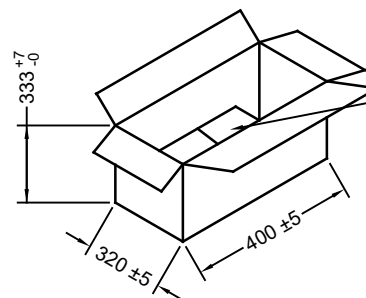
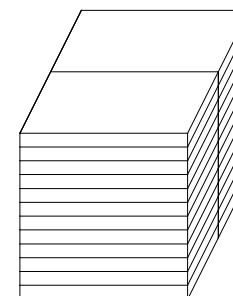
ASSEMBLE THE TOP  
AND BOTTOM



VACCUM 2 TRAYS  
IN A BAG



12 TRAYS PER STACK,  
2 STACK IN TOTAL



PUT 2 PAPER BOARDS IN THE BOX  
FOLLOWED BY 2 STACKS OF TRAYS THEN  
PLACE ANOTHER 2 PAPER BOARDS ON THE TOP



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3