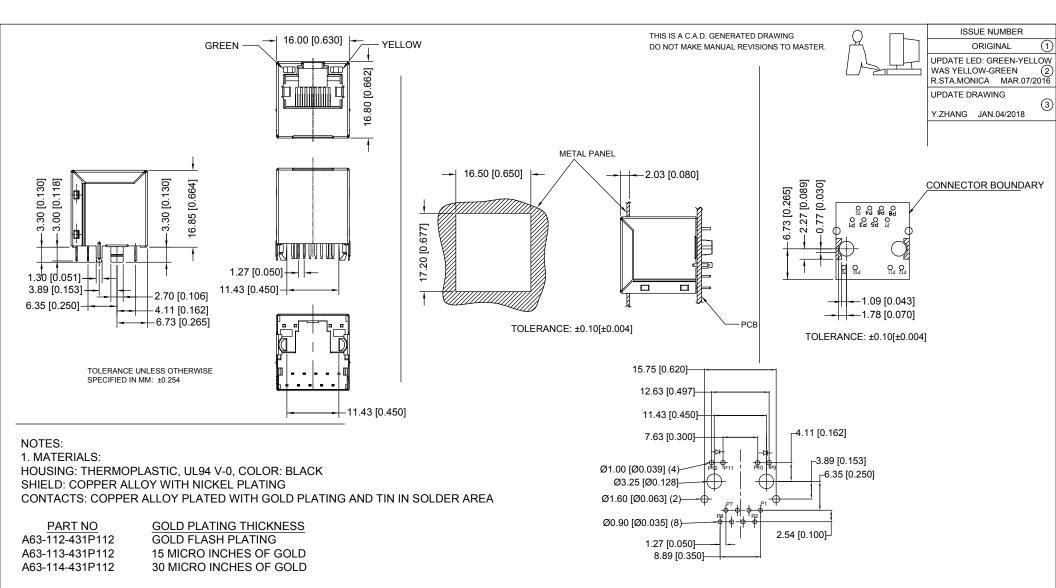


161 Alden Road, Units 7 & 8, Markham, Ontario Canada L3R 3W7 Tel: +1 416 754-3322 Fax: +1 416-754-3299 Email: info@edac.net http://www.edac.net ENGINEERING CHANGE NOTICE

		Date:	Document Number
Originator:	Yu Zhang	lanuary 2, 2019	ECN20180103-00
Phone No.	(416) 754-3322 ext.234	January 3, 2018	EGN20100103-00
Email Address:	yzhang@edac.net	Revision Number	SHEET
Department	ENGINEERING	1	1 of 7
_			
CHANGE TYPE			
CLASS I	Customer notification and approval required prior to imple	mentation	
X CLASS II	Customer notification only, no approval required		
CLASS III	No customer notification required		
REASON OF CHANGE			
	need to be replaced by new tooling with design improvemer 63-112-431P112 2. A63-113-431P112 3. A63-112-413P112		60-115-231P190
DESCRIPTION OF CHANG	<u> </u>		
1.Design change in shield to	eliminate the use of glue to hold LEDs in place.	g at the	
	CHANGE TO		
2.Design improvement to the	housing to allow easy insertion of LEDs without the need to	do pre-bending on the leads	S.
	CHANGE TO		
3. Implementation:Running (∟nange		
PARTIES AFFECTED X Customer X Distributors Suppliers	NORCOMP MH X ETW	X X X	ECA EDG EDAC UK
KEY TARGET DUE DATES IF Submit Quote Prod. Trial Rur Run at Rate	CHANGE IS APPROVED TO PROCEED (check if applicable a	PPAP from Supplier MRD of Production Parts	vn)
ACK	NOWLEDGEMENT FOR ECN INITIATION: (OPTIONALS)		STATUS
Tooling Rep Mfg Eng Rep Production Rep Materials Rep Quality Rep	Process Eng Rep Facilities Rep Sales Rep. Product Eng. Rep. Purchasing Rep	APPR	OVED CHANGE REQUEST #
	APPROVALS FOR ECN INITIATION (REQUIRED)	REJE	CTED
Preside Vice Preside	Engineering Manager Mechanical	Ronnie Sta. Monica	e REJECTED by:

13A-F002 Engineering Change Request (Supplier)



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, VERTICAL, 8P, 8C SHIELDED, 10/100Mbps FILTER

THIS SERIES FULLY CONFORMS TO THE **EUROPEAN UNION DIRECTIVES 2002/95/EC** AND 2002/96/EC FOR RoHS COMPLIANCY.



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ACAD REFERENCE NO.: A63-11X-431P112 DRAWN: R.STA.MONICA DATE: JUN.27/2012 CHECKED: DATE:

PART NUMBER

RECOMMENDED PCB LAYOUT

TOLERANCE: ±0.10[±0.004]

SEE NOTE

SHEET 1 OF 2

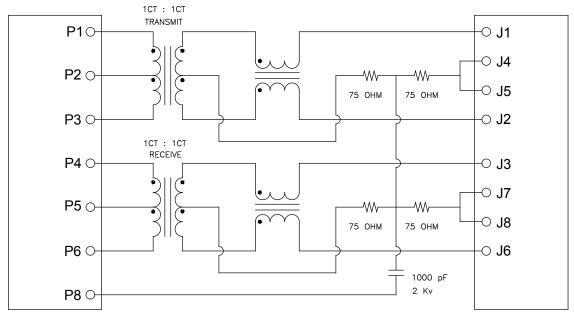
DRAWING NUMBER

A63-11X-431P112

ELECTRICAL CIRCUIT:



CONNECTOR SOLDER SIDE



ELECTRICAL SPECIFICATIONS:

TURN RATIO @ 100KHz: $(P1\sim P3):(J1\sim J2) = 1:1\pm 5\%$ $(P4\sim P6):(J3\sim J6) = 1:1\pm 5\%$

PRIMARY INDUCTANCE: 350µH min @ 100KHz, 0.1V 8mA DC BIAS

DC RESISTANCE: (J1~J2):(J3~J6) 1.2Ω MAX. **INSERTION LOSS:** 1-100MHz -1.2dB MAX. **RETURN LOSS:** 1-30MhZ -16dB min.

> 30-60MHz -12dB min. 60-80MHz -10dB min.

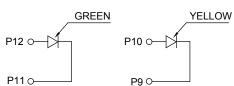
> -8dB min. 80-100MHz 1-100MHz -30dB min.

CROSS TALK: COMMON TO COMMON

MODE ATTENUATION:

1-100MHz -30dB min. ISOLATION PHY SIDE TO LINE SIDE: 1500V AC OR 2250V AC

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	

PIN	YELLOW	PIN	GREEN
P9	-	P11	-
P10	+	P12	+

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



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PART NUMBER

SEE NOTE

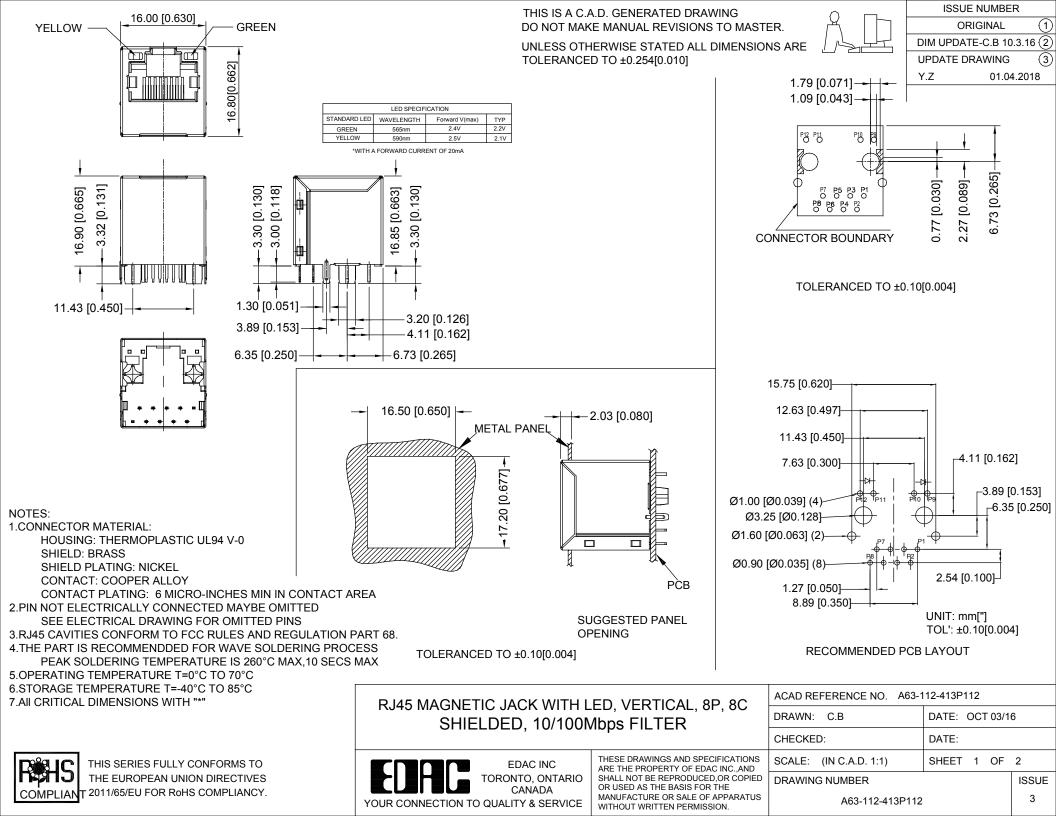
SHEET 2 OF 2

DRAWING NUMBER

A63-11X-431P112



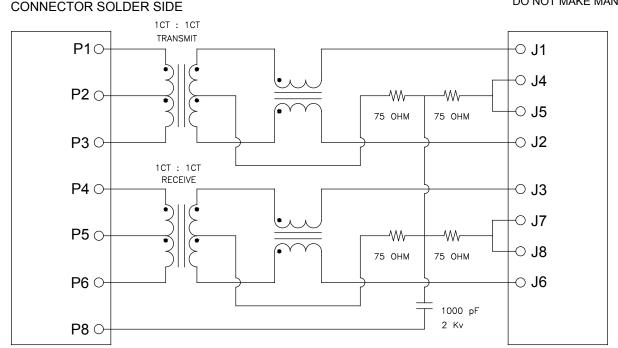
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ISSUE NUMBER

ORIGINAL



ELECTRICAL SPECIFICATIONS:

TURN RATIO @ 100KHz: $(P1\sim P3):(J1\sim J2) = 1:1\pm 2\%$

(P4~P6):(J3~J6) = 1:1±2%

PRIMARY INDUCTANCE: 350µH min @ 100KHz,

> 1-30MhZ -18dB min. 30-60MHz -16dB min.

60-80MHz -12dB min. 1-100MHz -30dB min.

CROSS TALK: COMMON TO COMMON

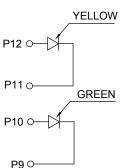
RETURN LOSS:

MODE ATTENUATION: 1-100MHz -30dB min.

SCALE: N.T.S

ISOLATION PHY SIDE TO LINE SIDE: 1500V AC OR 2250V AC

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	

PIN	GREEN	PIN	YELLOW
P9	-	P11	-
P10	+	P12	+

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

ACAD REFERENCE NO. A63-112-413P112

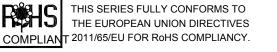
DRAWN: C.B DATE: OCT. 03/16

CHECKED: DATE:

SHEET 2 OF 2

ISSUE

3

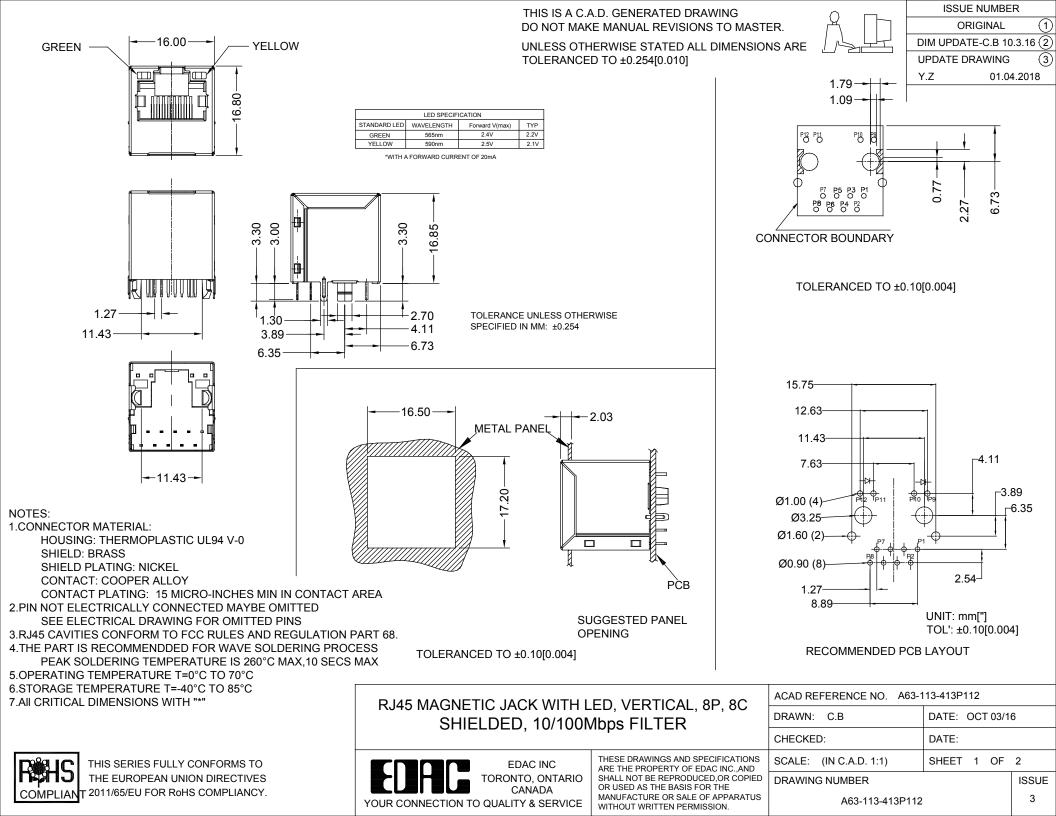


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DRAWING NUMBER

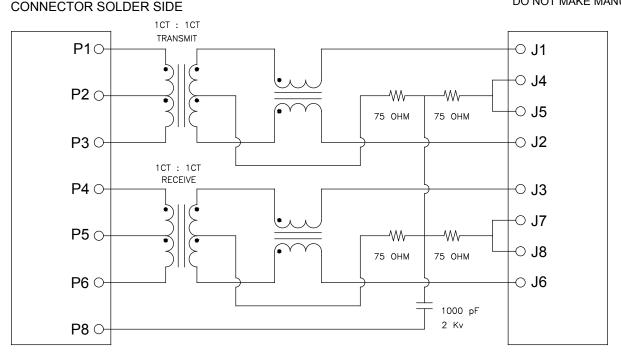
A63-112-413P112



ISSUE NUMBER

ORIGINAL





ELECTRICAL SPECIFICATIONS:

TURN RATIO @ 100KHz: $(P1\sim P3):(J1\sim J2) = 1:1\pm 5\%$ $(P4\sim P6):(J3\sim J6) = 1:1\pm 5\%$

350µH min @ 100KHz, PRIMARY INDUCTANCE:

0.1V 8mA DC BIAS (J1~J2):(J3~J6) DC RESISTANCE: 1.2Ω MAX. **INSERTION LOSS:** 1-100MHz -1.2dB MAX.

> 1-30MhZ -16dB min. 30-60MHz -12dB min.

60-80MHz -10dB min. 1-100MHz -30dB min.

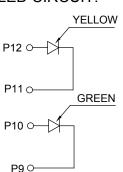
CROSS TALK: **COMMON TO COMMON**

RETURN LOSS:

MODE ATTENUATION: 1-100MHz -30dB min.

ISOLATION PHY SIDE TO LINE SIDE: 1500V AC OR 2250V AC

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	

PIN	GREEN	PIN	YELLOW
P9	-	P11	-
P10	+	P12	+

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

ACAD REFERENCE NO. A63-113-413P112 DRAWN: C.B DATE: OCT. 03/16 CHECKED: DATE:

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DRAWING NUMBER

SCALE: N.T.S

ISSUE 3 A63-113-413P112

SHEET 2 OF 2

THIS SERIES FULLY CONFORMS TO THE EUROPEAN UNION DIRECTIVES COMPLIANT 2011/65/EU FOR RoHS COMPLIANCY.

180° RJ45 10/100 BASE-T JACK WITH MAGNETIC MODULE

(TOLERANCE:±0.10)

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ACAD REFERENCE NO. A60-115-231P190

DRAWN: N.SONDH DATE: May. 09/16

PART NUMBER

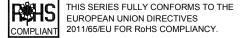
SEE ABOVE

6. Cavity Conforms To FCC Rules And Regulation Part 68 Subpart F.

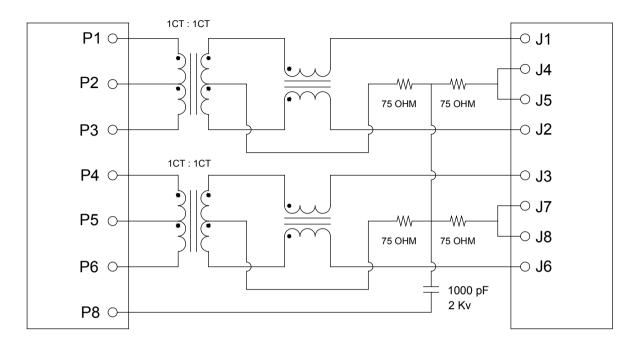
SHEET 1 OF 2

DRAWING NUMBER

A60-115-231P190



CIRCUIT SCHEMATIC



Electrical Specifications:

1. Turn Ratio @100KHz:

PINS:(P1~P3):(J1~J2)=1:1±5% PINS:(P4~P6):(J3~J6)=1:1±5%

2. Primary Inductance: 350uH Min @100KHz,0.1V 8mA DC Bias

3. DC Resistance: (J1~J2),(J3~J6)= 1.2 Ohms Max

4. Insertion Loss: 1-100MHz 1.2dB MAX

5. Return Loss:

-1.2 dB Max 1MHz - 30MHz 30MHz - 60MHz -16 dB Min 60MHz - 80MHz -10dB Min

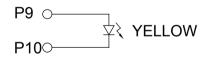
6. Cross Talk: 1MHz - 100MHz -30dB Min

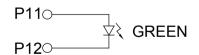
7. Common To Common Mode Atenuation:

-30dB Min 1MHz - 100MHz

8. Isolation:

PHY Side To Line Side: 1500VAC OR 2250VDC





LED SPECIFICATIONS				
STANDARD LED	WAVELENGTH	Forward V (max)	TYP	
GREEN	565 nm	2.4V	2.2V	
YELLOW	590 nm	2.5V	2.1V	

PIN	YELLOW	PIN	GREEN
P9	+	P11	+
P10	-	P12	-

180° RJ45 10/100 BASE-T JACK WITH **MAGNETIC MODULE**



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A60-115-231P190 ACAD REFERENCE NO. DATE: May. 09/16 DRAWN: N.SONDH

PART NUMBER

SEE ABOVE

SHEET 2 OF 2

DRAWING NUMBER