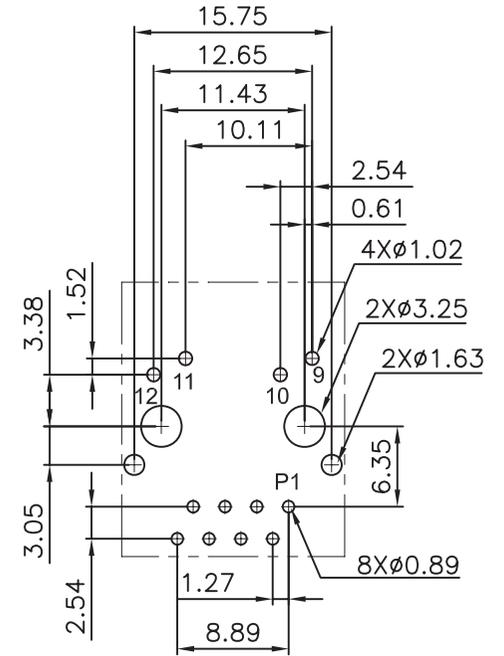
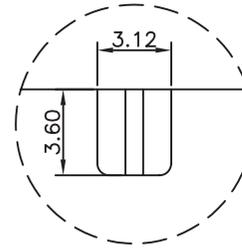
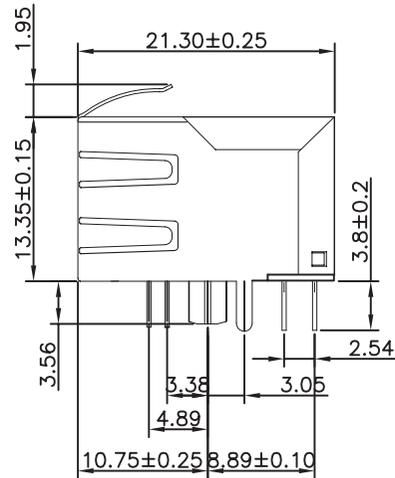


Recommended Panel Cut-out



Recommended PCB Layout  
(Component Side)

SPECIFICATIONS

ELECTRICAL: CURRENT RATING: 1.5A  
 VOLTAGE RATING: 125V AC  
 INSULATION RESISTANCE: 500MΩ Mini  
 WITHSTAND VOLTAGE: AC 1500 V RMS 50Hz OR 60Hz 1 Min  
 CONTACT RESISTANCE: 20mΩ Max

MECHANICAL: INSERTION FORCE: 2 CONTACTS----350g 4 CONTACTS----500g  
 6 CONTACTS----750g 8 CONTACTS----900g  
 10 CONTACTS----1050g

RETENTION STRENGTH: 7.7Kg BETWEEN JACK AND PLUG

DURABILITY: 750 MATING CYCLES Mini

MATERIAL: HOUSING: GLASS FILLED PBT (UL 94V-0)

SPRING WIRE: 0.35mm THICKNESS PHOSPHOR BRONZE ALLOY SELECTIVE GOLD PLATING OVER NICKEL

SHIELDING: 0.24mm THICKNESS COPPER ALLOY WITH TIN PLATED

WORKING TEMPERATURE: -40°C ~ 70°C



TITLE SINGLE MODULAR JACK W/ MAGNETICS & LEDS (RoHS)		OPEN TOLERANCES Fraction Decimals Angles X.X ±0.50 ±1° X.XX ±0.25 X.XXX ±0.10		DWG. Kate 04/07/10'			
PART NO. MTCLMB-1831SG9-R		SCALE 2:1		CKD. Justin 04/07/10'		B	Update Drawing 04/07/10'
REV. B		SHEET 1 of 3		APPD. Justin 04/07/10'		A	New Release 02/03/10'
REF. NO.		QA. NO.		REV.		DESCRIPTION DATE	

# Order Information

MTCLMB-18 3 1 S G 9-R

LED code  
(see box)

Shielding

G = with grounding tabs

Schematics

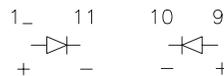
1 - A01

3 - A03

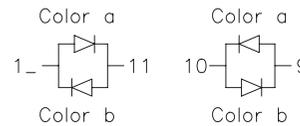
9 - A09

## LED Configuration

Single Color LED



Bi-Color LED



LED Codes		
code	LED 2 (left)	LED 1 (right)
0	No LED	No LED
1	Yellow	Green
2	No LED	Green
3	Green	Yellow
4	Green	Green
5	Yellow	Yellow
6	Yellow/Green	Yellow/Green
7	Green/Red	Green/Red
8	Yellow/Green	Yellow
9	Green/Orange	Yellow

Further LED options available on request



TITLE  
SINGLE MODULAR JACK W/  
MAGNETICS & LEDS (RoHS)

PART NO. MTCKMB-1831SG9-R REV. B

REF. NO.

OPEN TOLERANCES  
Fraction Decimals Angles  
X ± 0.50  
X.X ± 0.38  
X.XX ± 0.25  
X.XXX ± 0.10

SCALE 2 : 1

QA. NO.

DWG. Kate 04/07/10'

CKD. Justin 04/07/10'

APPD. Justin 04/07/10'

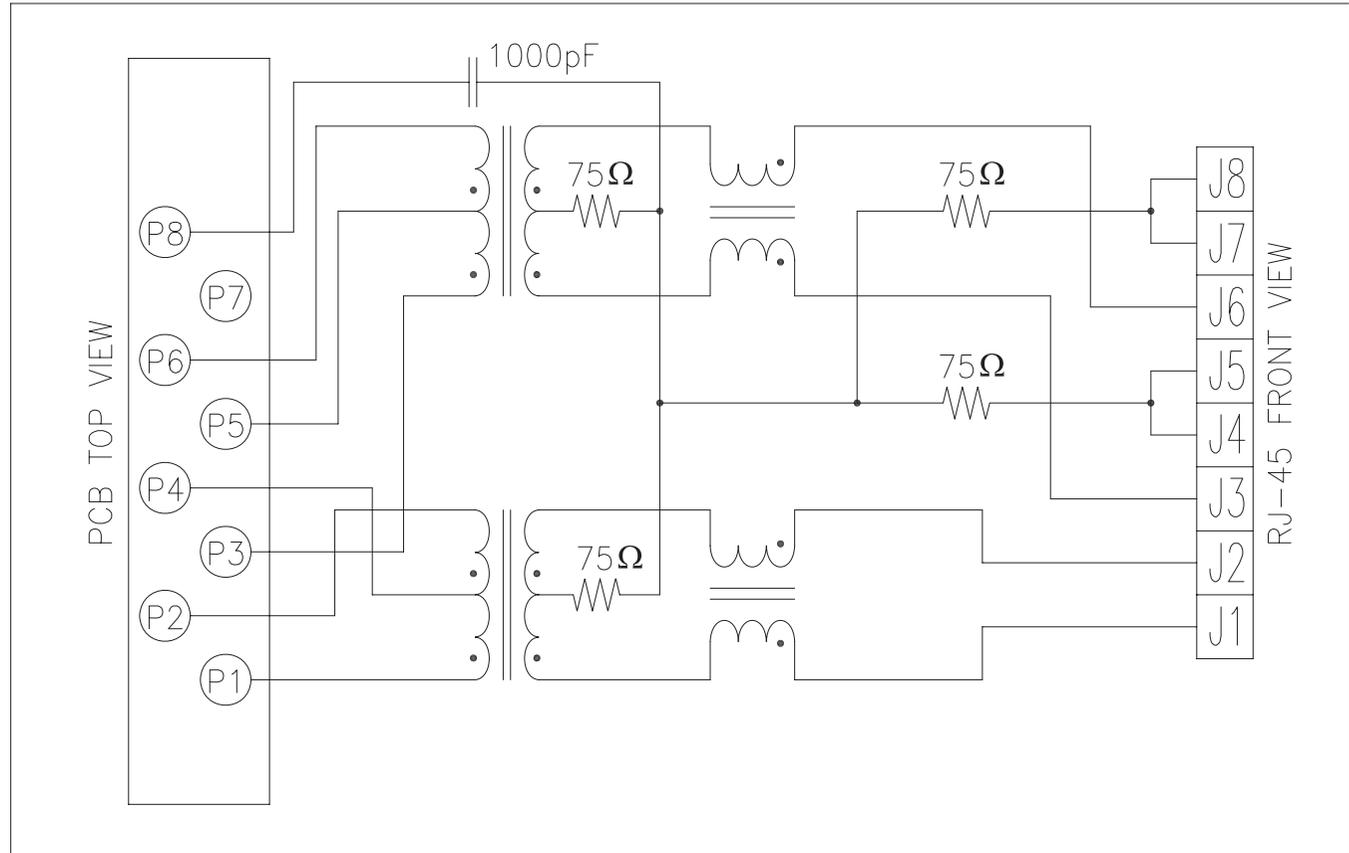
SHEET 2 of 3

REV. B

APPD. Justin 04/07/10'

REV.	DESCRIPTION	DATE
B	Update Drawing	04/07/10'
A	New Release	02/03/10'

# Schematic A09



## 10/100 MB ELECTRICAL CHARACTERISTICS @ 25°C

Isolation Voltage(Input to Output): 1500 Vrms  
 Turns Ratio: TX 1CT:1CT ±5% ; RX 1CT:1CT ±5%  
 Insertion Loss: -1.0dB Max. @1-100MHz

Return Loss:

1-30MHz	30-60MHz	60-80MHz
-18dB	-16dB	-12dB

(Min.)

Differential to Common Mode Rejection:

1-50MHz	50-150MHz
-30dB	-20dB

(Min.)

Cross Talk:

1-30MHz	30-60MHz	60-80MHz
-40dB	-35dB	-30dB

(Min.)

Inductance: 350uH Min with 8mA DC Bias, @100KHz/100mV



**GTK UK LTD.**

TITLE  
Filter Schematic A09 Type



OPEN TOLERANCES  
 Fraction Decimals Angles  
 X ±0.50  
 XX ±0.38  
 XXX ±0.25  
 XXXX ±0.10

DWG. Kate 12/25/09'

CKD. Justin 12/25/09'

APPD. Justin 12/25/09'

6

PART NO. MTCLMB-1831SG9-R REV. B

REF. NO.

SCALE 1:1

QA. NO.

SHEET 3 of 3

B	Update Drawing	12/25/09'
A	New Release	09/25/09'
REV.	DESCRIPTION	DATE