

SPECIFICATION FOR APPROVAL

PART NO.: XMG-9771-A731150-176

PRODUCT DESCRIPTION.: 10/100/1000 Base-T RJ45, 1X1 TabDown w/Transformer and w/ LED



REV:A

Xmultiple

MARKETING GROUP	R&D GROUP	QA GROUP
ISSUED BY	CHECKED BY	QA INSPECTION
Gino	De	Xu Long

CUSTOMER: _____

CUSTOMER PART NO.: _____

SAMPLE Q'TY: _____

CUSTOMER

CUSTOMER APPROVAL:

APPROVAL

CONCESSIONARY

REJECTED

ISSUED BY	CHECKED BY	APPROVED BY

COMMENTS:

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TEMP(°C):25

HUM(%):65 RH

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3. REVISION CHANGE RECORD

REV	Description	Drawn	Checked	Approved	Issue Date
A	Specification issued	Gino	Kingdun	De	2012/11/8

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4. SPECIFICATION AND PERFORMANCE

4-1 Scope

This specification covers the requirements for product performance, tests and quality assurance provisions for TRANSFORMER JACK

4-2 Applicable document

The following documents form a part of this specification to the extent specified herein. In the event of conflict between the requirements of this specification and the product drawing shall take precedence

4-3 Requirements

4-3-1 Design and construction

Product shall be of the design, construction and physical dimensions specified on the applicable product drawing
 Complies with IEEE standards and all 10/100/1000 Ethernet

4-3-2 Materials and finish

Housing:	Glass filed polyester UL94V-0
Contact:	Phosphor Bronze t=0.35mm FLAT PIN
Plating:	6U" gold plating over nickel
Shield:	0.20mm thickness copper alloy with nickel plated
PCB retention pre-solder:	1LB min.
PCB retention post-solder:	10 LBS min.
Tails:	150U"~200U" Tin-Lead min. over 30U" ~50U" nickel(RoHS6)

4-3-3 Mechanical characteristics:

Durability:750(modular jack) insertion/plug dimension cycles at min. rate of 120 cycles per minute

4-3-4 Electrical

Contact resistance:	30 milliohms max.
Insulation resistance:	500 megohms min.
Dielectric strength:	1500 VAC RMS 60Hz,1min.

4-3-5 Environmental:

Operating temperature:	0°C~+70°C
Storage temperature:	-40°C~+85°C

Mates with modular plug conforming to FCC pact 68 .

4-3-6 Applicable printed circuit board

The product is designed to meet the electrical, mechanical and environmental performance requirements specified in product drawing

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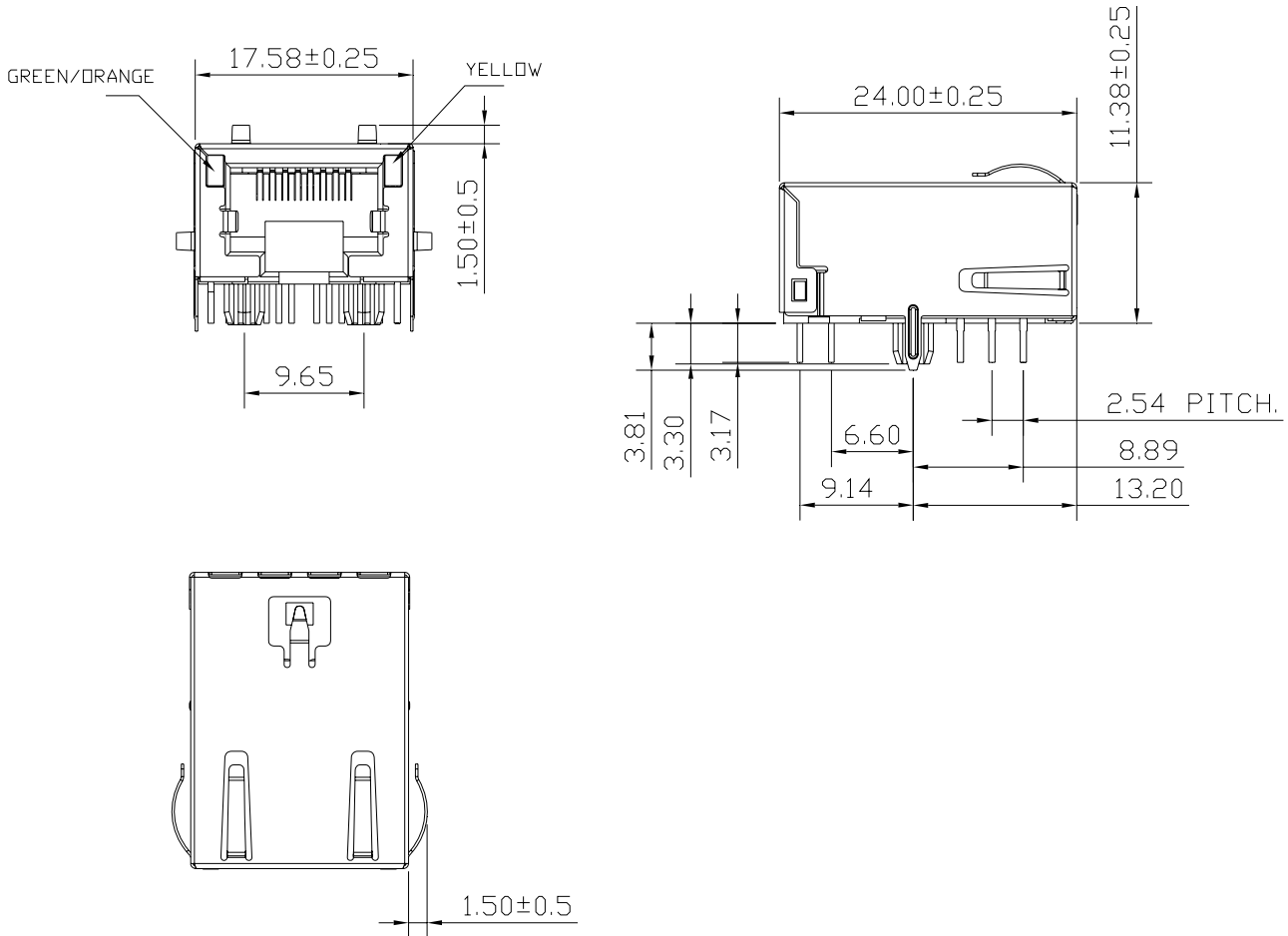
TOLERANCE(mm):

.0 ± 0.20

.00 ± 0.15

.000 ± 0.075

5. MECHANICAL DIMENSION AND LABEL



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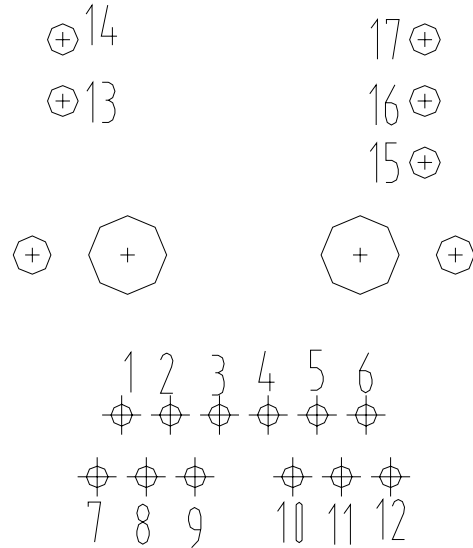
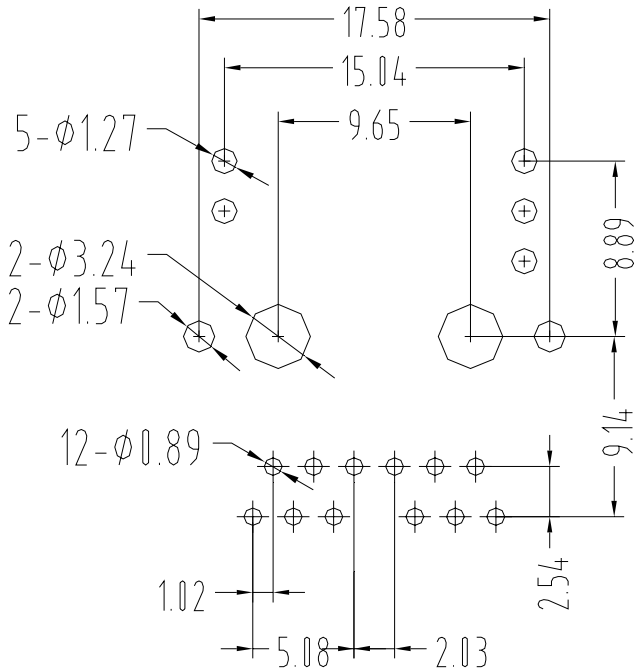


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6. RECOMMENDED PCB LAYOUT: UNIT: (mm)



PIN-OUT INFORMATION

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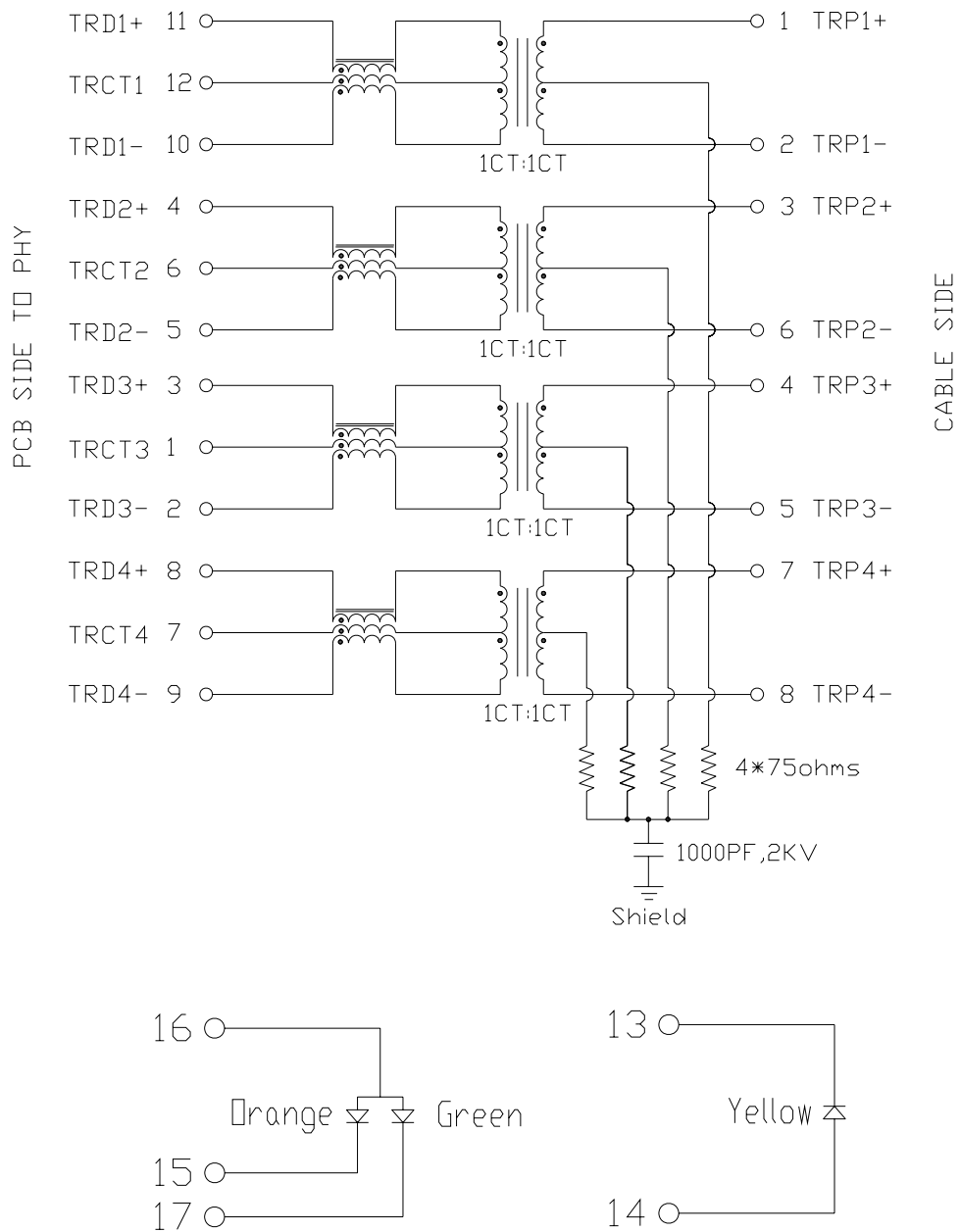


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7. CIRCUIT SCHEMATIC



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8. LED ELECTRICAL / OPTICAL CHARACTERISTICS:

Dice	Lens Type	Iv (mcd) @20 mA		Viewing Angle
		Min.	Typ.	2θ 1/2
Pure Orange (GaAsP/ Gap)	White Diffused	2.6	6	100°
Green (Gap)		5	10	100°
Yellow(Gap)	Yellow Diffused	3	6	

Parameter	Device	Typ.	Max.	Units	Test Conditions
Dominate Wavelength	Green	568 λ d	575 λ d	nm	IF=20mA
	Pure Orange	585 λ d	615 λ d	nm	IF=20mA
	Yellow	585 λ d	615 λ d	nm	IF=20mA
Forward Voltage	Green	2.2	2.5	v	IF=20mA
	Pure Orange	2.1	2.5	v	IF=20mA
	Yellow	2.2	2.5	v	IF=20mA
Reverse Current	Green		10	uA	V _R =5V
	Pure Orange		10	uA	V _R =5V
	Yellow		10	uA	V _R =5V
Power Dissipation	Green		62.5	mW	V _R =5V
	Pure Orange		75	mW	V _R =5V
	Yellow		62.5	mW	V _R =5V

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9. ELECTRICAL CHARACTERISTICS

9-1 Turn Ratio:

(P11-P10) : (J1-J2) 1CT:1CT(±3%) (P5-P4) : (J3-J6) 1CT:1CT(±3%)

(P3-P2) : (J4-J5) 1CT:1CT(±3%) (P9-P8) : (J7-J8) 1CT:1CT(±3%)

9-2 Primary Inductance: @100kHz,0.1Vrms,8mADC BIAS

P11-P10, P9-P8, P5-P4, P3-P2 : 350µH Min.

9-3 DCR

J1-J2 , J3-J6,J4-J5,J7-J8 1.2 Ohms Max

9-4 Insertion loss: 0.3MHZ~1MHz -1.1dB MAX.

1MHZ~65MHz -0.8dB MAX.

65MHZ~100MHz -1.0dB MAX.

100MHZ~125MHz -1.2dB MAX.

9-5 Return loss: Load 100 ohms

0.5MHZ~40MHz -18dB MIN.

40MHZ~100MHz -18+20Log(F/80MHz) dB Min.

9-6 CM TO CM REJECTION

1MHZ~100MHz -30dB MIN

9-7 CROSS TALK

1MHZ~100MHz -30dB MIN

9-8 HIPOT (Isolation Voltage):

Input to Output Isolation 1500Vrms Min@60 Sec

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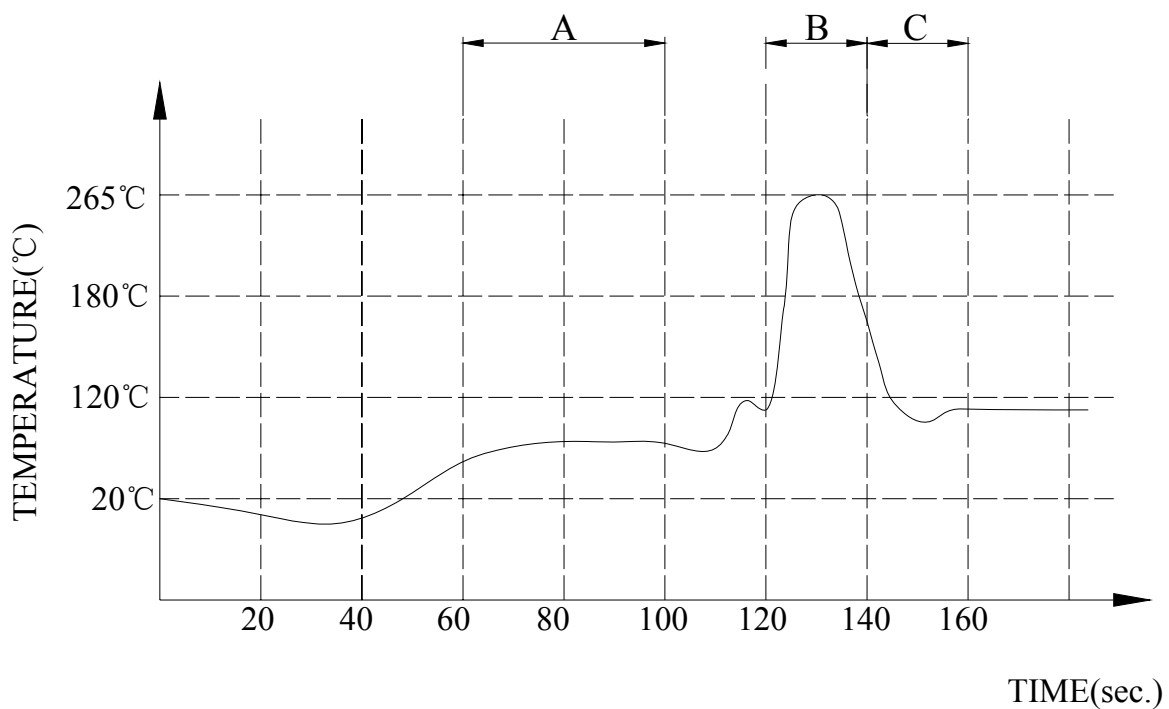


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10. PROFILE OF WAVE SOLDER



———— PIN TEMPERATURE

----- COMPONENT TEMPERATURE

A:Preheating B:Soldering C:Gradual Cooling

Notes:

- (1) Tip temperature :260±5°C
- (2) Tip temperature time: 5sec. max
- (3) The melting point of tin : 219°C

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11. PACKAGE

70 PCS/TRAY
490 PCS/INNER BOX
980 PCS/OUTER BOX

