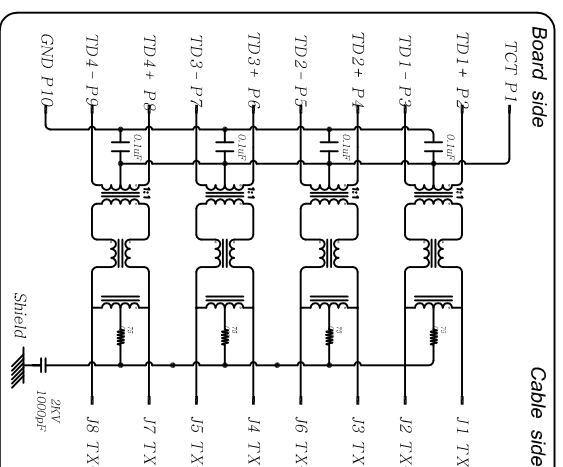


REV. A	ECN NO. OR DESCRIPTION	REVISED	DATE
	PDR RELEASE	Even	2016.12.02

SCHEMATIC FOR RJ45:  
-10/100/1000BASE-T  
-WITH LED



SPECIFICATION:

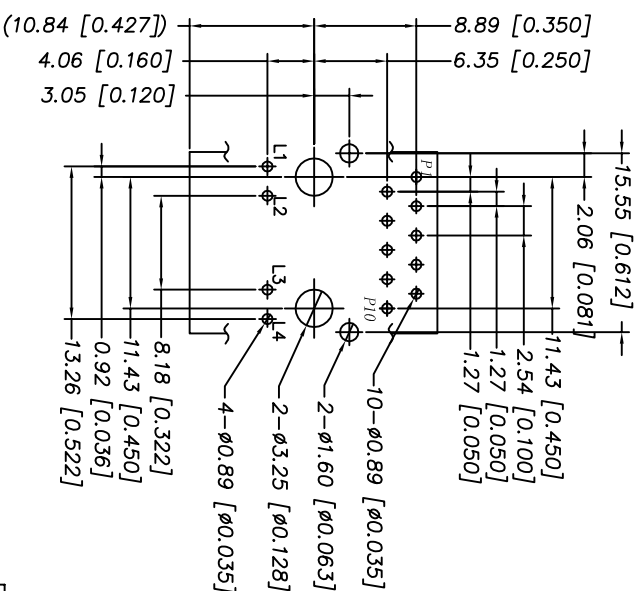
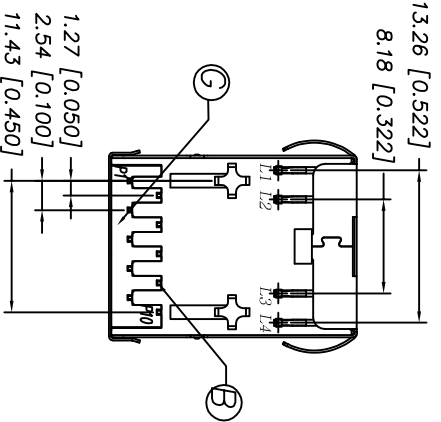
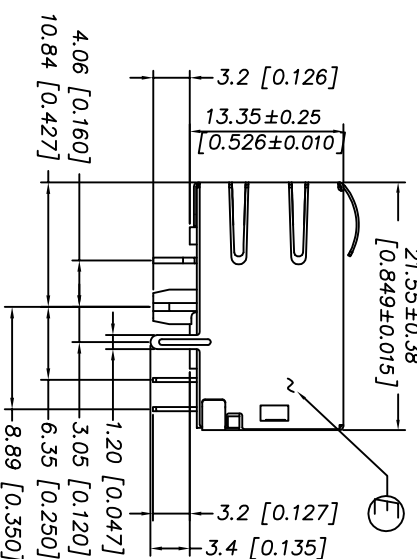
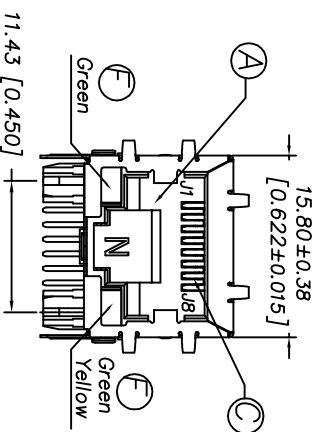
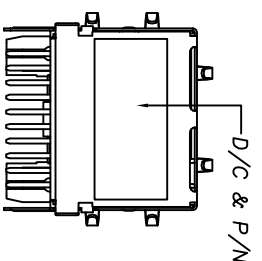
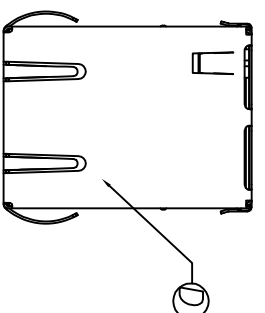
- TO CONFORM TO SINGATRON HAZARDOUS SUBSTANCE FREE SPEC.
- GREEN PRODUCT IDENTIFICATION LABEL ON PACKAGING **G.P. PASS**
- PACKAGE: SEE "2TJ1595-000111H" PACKAGE.
- FOR WAVE SOLDERING LEAD-FREE PROCESS.
- MATES WITH MODULAR PLUG CONFORMING TO FCC PART 68, SUBPART F.
- ELECTRICAL
  - INSULATION RESISTANCE : 500 MOHMS MIN
  - DIELECTRIC WITHSTANDING VOLTAGE : 1500 VAC FOR 1 MINUTE
- DURABILITY TEST RATING
  - REMOVAL FORCE WITH THE LATCH DEPRESSED : 22N MAX
  - INSERTION FORCE WITH THE LATCH DEPRESSED : 44N MAX
- OPERATING AND STORAGE TEMPERATURE
  - OPERATING TEMPERATURE : 0°C TO +70°C
  - STORAGE TEMPERATURE : -40°C TO +85°C

ELECTRICAL CHARACTERISTICS :

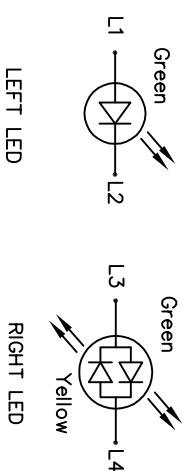
- INSERTION LOSS :
  - 1~100 MHz -1.0dB MAX.
  - 2. RETURN LOSS(LOAD 100Ω) :
    - 1~30 MHz -18dB MIN
    - 30~60 MHz -16dB MIN
    - 60~80 MHz -12dB MIN
    - 80~100 MHz -10dB MIN
- COMMON MODE REJECTION
  - 1~100 MHz -30dB MIN
- CROSS TALK
  - 1~100 MHz -30dB MIN
- INDUCTANCE @ 100KHz, 0.1V, 8mA DC BIAS
  - (P2-P3),(P4-P5),(P6-P7),(P8-P9) : 350 uH MIN
- DCR
  - (J1-J2),(J3-J6),(J4-J5),(J7-J8) : 1.2 Ohm MAX
- HI-POUT TEST
  - PCB SIDE TO CABLE SIDE : 1500VAC 60S OR 2250VDC 60S
- TURNS RATION 100KHz
  - (P2-P3) : (J1-J2) = 1:1 ±%3
  - (P4-P5) : (J3-J6) = 1:1 ±%3
  - (P6-P7) : (J4-J5) = 1:1 ±%3
  - (P8-P9) : (J7-J8) = 1:1 ±%3
- OTHER GENERAL SPEC. TO REFER "2TJ1595-000111H SPEC".

PART NO.  
2TJ1595-000111H

- SUFFIX: HALOGEN
- PACKAGE
- 1: TRAY
- HOUSING COLOR
- 1: BLACK
- CONTACT PLATING
- 1: 30U" GOLD ON CONTACT AREA,
- 100U" MIN TIN PLATING ON SOLDER TAILS,
- 30U" MIN NICKEL OVERALL



RECOMMENDED PCB LAYOUT  
(COMPONENT SIDE VIEW)



Emitting Color	λp	Vf@If=20mA	If @V=5V
Green	(n)685	1.7V~2.6V	10 uA max.
Yellow	585	1.7V~2.6V	10 uA max.

G	CASE	1	LCP UL 94V-0	BLACK COLOR
F	LED	2		GREEN/GREEN, YELLOW
E	PCB	1		
D	SHELL	1	SUS304	TIN PLATED ON SOLDER AREA
C	OUTPUT CONTACT	8	C5210	SEE PART NO.
B	INPUT CONTACT	10	C2680	TIN PLATING
A	HOUSING	1	PBT UL 94V-0	BLACK COLOR
NO	DESCRIPTION	QTY	MATERIAL	PLATING & COLOR

UNLESS OTHERWISE SPECIFIED TOLERANCES

DECIMALS: ANGLES:

X : ±0.5 X : ±2°

X.X : ±0.3 X.X : ±1°

X.XX : ±0.2

Singatron Enterprise Co., Ltd.  
信音企業股份有限公司

TITLE RJ45 1\*1 w/ Transformer, w/ LED

DWN	EN 2016.12.02	PART NO. 2TJ1595-000111H	SCALE: N/A	UNIT: mm	REV: A
CHKD	AMEI/2016.12.02	SIZE: A3	SHEET: 1 OF 1	REV: A	
APVD	AMEI/2016.12.02	CUSTOMER COPY			