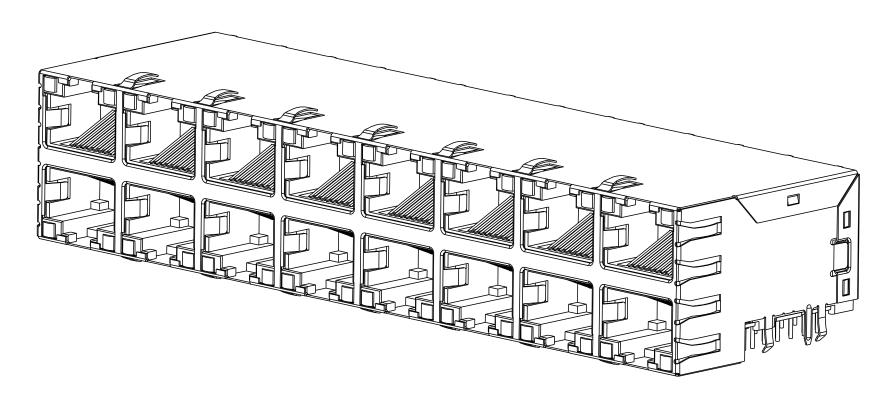
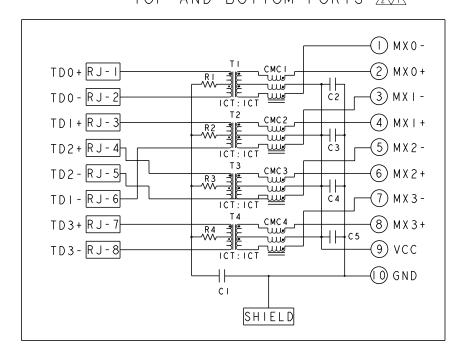
H EC-1411035 COMPANY LOGO CHANGE 29JAN2015 TR TY



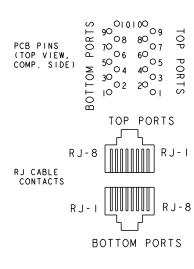
S8G16 GIGABIT CIRCUIT TOP AND BOTTOM PORTS 2



CI = 1000pF, 3kV C2 - C5 = 470pF,10%,50V RI-R4 = 75 OHMS, 1/16W

PIN DESIGNATIONS

(REPEAT FOR EACH VERTICAL PAIR OF PORTS)



⚠ MATERIALS:

- HOUSING: THERMOPLASTIC. BLACK. FLAMMABILITY RATING UL 94V-0.
- SHIELD: BRASS, PREPLATED WITH 0.76um MIN SEMI-BRIGHT NICKEL, POST DIPPED WITH 2.54um MIN SAC SOLDER ON SOLDER TAILS.
- CONTACTS: PHOSPHOR BRONZE, PLATED WITH 1.27um MIN OVERALL NICKEL UNDERPLATE, SELECTIVE 1.27um MIN GOLD AT MATING INTERFACE
- AND 2.54um MIN MATTE TIN ON SOLDER TAILS.
- LED: DIFFUSED EPOXY LENS, CARBON STEEL LEAD FRAME LEADS, PREPLATED WITH 2.03um MIN SILVER OVER 1.02um MIN NICKEL OVER I.O2um MIN COPPER UNDERPLATE, POST PLATED WITH 2.54um MIN MATTE TIN AND/OR 2.54um MIN SAC SOLDER DIP OR PURE TIN SOLDER DIP.

∠ MAGNETICS:

- APPLICATION: 10/100/1000 BASE-T
- IMPEDANCE: 100 ohm
- TURNS RATIO (CHIP: CABLE): I: I ALL FOUR PAIRS
- OPEN CIRCUIT INDUCTANCE (OCL): 350uH MIN @100kHz, 0.1VRMS,
- 8mA DC BIAS FROM 0°C TO 70°C, ALL FOUR PAIRS - RISE TIME(10%-90%): 2.5ns TYPICAL;
- ALL FOUR PAIRS BI-DIRECTIONAL
- PERFORMANCE @25°C:
 - INSERTION LOSS (IL): 1.1dB MAX FROM 0.5MHz TO 100MHz RETURN LOSS (RL): 18dB MIN FROM 0.5MHz TO 40MHz
 - 12-20LOG(f/80)dB MIN FROM 40.IMHz TO 100MHz
 - CROSSTALK ATTENUATION: 35dB MIN FROM 0.5MHz TO 40MHz
 - 33-20LOG(f/50)dB MIN FROM 40.IMHz TO 100MHz
- COMMON MODE REJECTION RATIO (CMRR):
- 30dB MIN FROM 0.5MHz TO 100MHz
- ISOLATION VOLTAGE: COMPLIES WITH IEEE802.3 2002, PARA 40.6.I.I, ITEM a and b.
- PART NUMBER, DATE CODE AND COUNTRY OF ORIGIN ARE LOCATED IN THE APPROXIMATE AREA SHOWN.DATE CODE "YY" IS THE YEAR, "WW" IS THE WEEK, "D" IS THE DAY OF WEEK, WITH SUNDAY="I".
- TRP LOGO AND AGENCY APPROVAL LOGO ARE LOCATED
- IN THE APPROXIMATE AREA SHOWN.
- RJ45 CAVITIES CONFORM TO FCC RULES AND REGULATIONS PART 68 SUBPART F. <u>6</u>
 - LED ARE DRIVEN WITH CONSTANT CURRENT AT APPROX. 20mA DOMINANT WAVELENGTH (λ D) GREEN, 568nm TYP at IF=20mA YELLOW, 588nm TYP at IF=20mA FORWARD VOLTAGE (VF):
 - GREEN, 2.2V TYP at IF=20mA YELLOW, 2.IV TYP at IF=20mA
- INDICATED MAGNETIC CONNECTIONS ARE SYMMETRICAL AND SUPPORT AUTO-MDI/MDIX.
- 8 OPERATING TEMPERATURE: FROM 0°C TO 70°C
- THE PARTS ARE RECOMMENDED FOR WAVE SOLDERING PROCESS, PEAK TEMPERATURE 265 °C MAX. 10 SECONDS MAX. IT IS RECOMMENDED THAT THE CONNECTOR SHIELD AND BODY BE MASKED TO PROTECT IT FROM DIRECT EXPOSURE TO THE SOLDER WAVE TO AVOID DAMAGE TO THE CONNECTOR AND LEDS.

2.80	GREEN/YELLOW	GREEN/YELLOW	GREEN/YELLOW	GREEN/YELLOW	7	1-1840215-4	
2.50	GREEN	YELLOW	GREEN	YELLOW	7	1840215-5	
3.30	GREEN/YELLOW	GREEN/YELLOW	GREEN/YELLOW	GREEN/YELLOW	7	1840215-4	
3.30	YELLOW	GREEN	GREEN	YELLOW	7	1840215-3	
3.30	GREEN	YELLOW	GREEN	YELLOW	7	1840215-2	
3.30	GREEN	GREEN	GREEN	GREEN	7	1840215-1	
DIM A	BOTTOM LED 2 (LEFT)	BOTTOM LED 1 (RIGHT)		TOP LED 1 (RIGHT)	REAR PCB GND TABS	PART NUMBER	
THIS DRAWING IS A CONTROLLED DOCUMENT. DWN 155EP2006							

THIS DRAWING IS A C	ONTROLLED DOCUMENT.	WAVE XU CHK 15SEP2006 DENNIS CHEN		GUA
DIMENSIONS:	TOLERANCES UNLESS OTHERWISE SPECIFIED:	APVD 15SEP2006 TEDDY XIONG		INA
**	0 PLC ±- 1 PLC ±0.25 2 PLC ±0.25 3 PLC ±0.25	MAGJACK	2X8 S8G16 GIGABIT OFFSET W/ LE	D
PRODUCT SPEC 108-104004	4 PLC ±- ANGLES ±- APPLICATION SPEC	STACK NON-PoE	SIZE CAGE CODE DRAWING NO C=1840215	-
100-104004	-	CUSTOMER DRAWING	SCALE 4: SHEET OF 4	REV H

