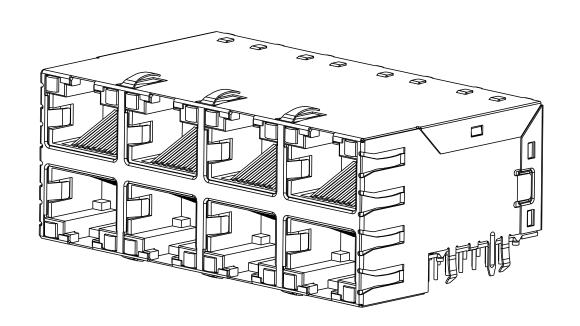
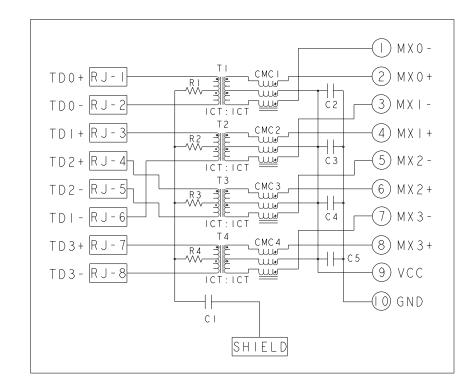
THIS DRAWING AND THE SUBJECT MATTER SHOWN THEREON ARE CONFIDENTIAL AND THE PROPERTY
OF BEL/STEWART/TRP CONNECTOR AND SHALL NOT BE REPRODUCED, COPIED, OR USED IN ANY
MANNER WITHOUT THE WRITTEN CONSENT OF TRP CONNECTOR.
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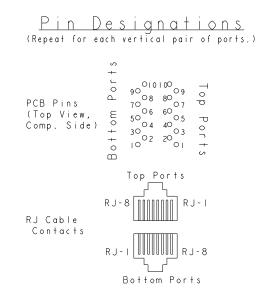
PRODUCT MAY BE PROTECTED BY ONE OR MORE OF THE FOLLOWING US PATENTS: 5736910 5939955 6425781 6428361 6554638 6840817 7123117 7429195 7717749 7808751 6217391 6149050 7924130



## S8G31 GIGABIT CIRCUITAA Top and Bottom Ports



CI = 1000pF, 2kV C2-C5 = 470pF, 10%, 50V RI-R4 = 750hms, 1/16W



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 1.02um 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: 100ohm

- 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

- ALL FOUR PAIRS BI-DIRECTIONAL

- PERFORMANCE @25°C:

INSERTION LOSS (IL): I.IdB MAX FROM 0.5MHz TO 100MHz
RETURN LOSS (RL): 18dB MIN FROM 0.5MHz TO 40MHz
12-20LOG(f/80)dB MIN FROM 40.1MHz TO 100MHz
CROSSTALK ATTENUATION: 35dB MIN FROM 0.5MHz TO 40MHz
33-20LOG(f/50)dB MIN FROM 40.1MHz TO 100MHz

COMMON MODE REJECTION RATIO (CMRR):

30dB MIN FROM 0.5MHz TO 100MHz

- ISOLATION VOLTAGE: COMPLIES WITH IEEE802.3 2005, PARA 40.6.1.1, ITEM 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.

 $\sqrt{5}$  RJ45 CAVITIES CONFORM TO FCC RULES AND REGULATIONS PART 68 SUBPART F.

LED IS DRIVEN WITH CONSTANT CURRENT AT APPROX 20mA LED COLOR: DOMINANT WAVELENGTH (λ D):
GREEN 568 nm TYP at IF=20mA
YELLOW 588 nm TYP at IF=20mA
ORANGE 610 nm TYP at IF=20mA
FORWARD VOLTAGE (VF):
GREEN 2.2V TYP at IF=20mA
YELLOW 2.IV TYP at IF=20mA
ORANGE 2.2V TYP at IF=20mA

🔨 INDICATED MAGNETIC CONNECTIONS ARE SYMMETRICAL AND SUPPORT AUTO-MDI/MDIX.

8 OPERATING TEMPERATURE: FROM 0°C TO 70°C

9 THE PARTS ARE RECOMMENDED FOR WAVE SOLDERING PROCESS, TEMPERATURE 260 °C MAX PEAK IO 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

THIS DRAWING IS A CONTROLLED DOCUMENT		A CONTROLLED DOCUMENT.	DWN 050CT2006		GND TABS	
DIM A	TOP RIGHT LED	TOP LEFT LED	BOTTOM RIGHT LED	BOTTOM LEFT LED	REAR PCB	PART NUMBER
3.30	GREEN	GREEN	GREEN	GREEN	3	1840230-1
3.30	YELLOW	GREEN	GREEN	YELLOW	3	1840230-2
3.30	YELLOW	GREEN	YELLOW	GREEN	3	1840230-3
3.30	O GREEN/YELLOW GREEN/YELLOW		GREEN/YELLOW	GREEN/YELLOW	3	1840230-4
3.30	GREEN	GREEN/YELLOW	GREEN	GREEN/YELLOW	3	1840230-5
3.30	GREEN/ORANGE	GREEN	GREEN/ORANGE	GREEN	3	1840230-6
3.30	GREEN/ORANGE	GREEN/ORANGE	GREEN/ORANGE	GREEN/ORANGE	3	1840230-7
3.80	YELLOW	GREEN	YELLOW	GREEN	3	1-1840230-3

THIS DRAWING IS A C	ONTROLLED DOCUMENT.	DWN 050CT2006  JEE LUO 050CT2006  CHK 050CT2006	TID CONNECTOR DO	NGGUA
DIMENSIONS:	TOLERANCES UNLESS OTHERWISE SPECIFIED:	APVD 050CT2006	a bel group	HINA
<b>O</b>	0 PLC ±- 1 PLC ±- 2 PLC ±0.25 3 PLC ±-	MAGJACK	DESC 2X4 S8G31 GIGABIT OFFSET W/ L	E D
PRODUCT SPEC	4 PLC ±- ANGLES ±- APPLICATION SPEC	STACK NON-PoE	SIZE CAGE CODE DRAWING NO C-1840230	STRICTED -
108-104004	-	CUSTOMER DRAWING	SCALE 4:1 SHEET   OF 4	REV F

