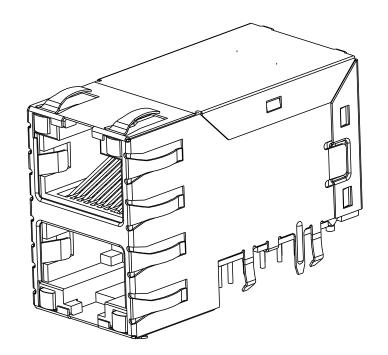
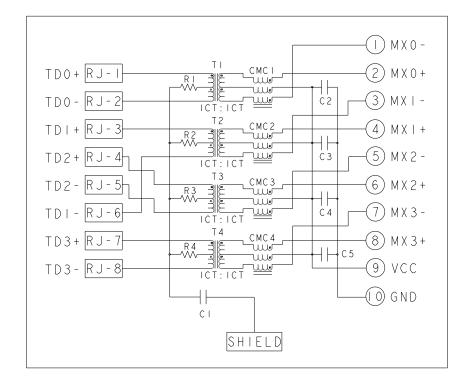
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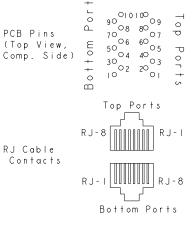


S8G31 GIGABIT CIRCUIT AA Top and Bottom Ports



CI = 1000pF, 2kV C2-C5 = 470pF, 10%, 50V RI-R4 = 75ohms, 1/16W

Pin Designations (Repeat for each vertical pair of ports.)



1. 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

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- -IMPEDANCE: 100 Ohms
- -TURNS RATIO (CHIP: CABLE): 1:1 ALL FOUR PAIRS
- -OPEN CIRCUIT INDUCTANCE (OCL): 350uH MIN @100kHz, 0.1VRMS, 8mADC BIAS FROM 0 °C TO 70 °C, ALL FOUR PAIRS
- -ALL FOUR PAIRS BI-DIRECTIONAL

D IS DAY OF WEEK, WITH SUNDAY=1.

- -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 40.1MHz 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: 2250VDC (MAX) FOR 60 SECONDS WITH A RISE TIME OF 500V/SEC AND WITH ALL PORTS CONNECTED.
- PART NUMBER, DATE CODE AND COUNTRY OF ORIGIN ARE LOCATED IN THE APPROXIMATE AREA SHOWN. DATE CODE: YY IS YEAR, WW IS WORK WEEK,
- 1 TYCO ELECTRONICS LOGO AND AGENCY APPROVAL LOGO ARE LOCATED IN THE APPROXIMATE AREA SHOWN.
- RJ45 CAVITIES CONFORM TO FCC RULES AND REGULATION PART 68 SUBPART F.
- 6 LEDS ARE DRIVEN WITH CONSTANT CURRENT AT APPROX. 20mA. DOMINANT WAVELENGTH (λD) GREEN 568nm TYP AT IF=20mA YELLOW 588nm TYP AT IF=20mA FORWARD VOLTAGE (VF) GREEN 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

YELLOW 2.1V TYP AT IF=20mA

THE PARTS ARE RECOMMENDED FOR WAVE SOLDERING PROCESS, PEAK TEMPERATURE 260 °C MAX. 10 SECONDS MAX.

	GREEN		YELLOW	GREEN		YELLOW		1840350-2				
	TOP LEFT		P RIGHT LED		M LE	FT LED	вотто	M RIGHT	LED	PART	NUMBER	
The state of the control of the cont												
DIMENSIONS:	TOLER OTHERW	ANCES UNLESS ISE SPECIFIED:	APVD 2			NAME NACAS (TM.) MODULE LACK OVA OFFICET						
	0 PLC 1 PLC 2 PLC 3 PLC	±- ±- ±- ±0.25	108-104004			- MAG45(TM) MODULE JACK, 2X1 OFFSET S8G31 GIGABIT CIRCUIT, WITH LED 10 PIN VERTICAL						
*	4 PLC ANGLES	±·			SIZE		DRAWING NO				RESTRICTED TO	
MATERIAL	FINISH	\wedge	WE I GHT _		ΑΊ	00779	C-18	40350			-	
		\Box	CUSTOMER DRAW	VING				SCALE 5.1	SHEET	1 OF 4	4 REV B	

