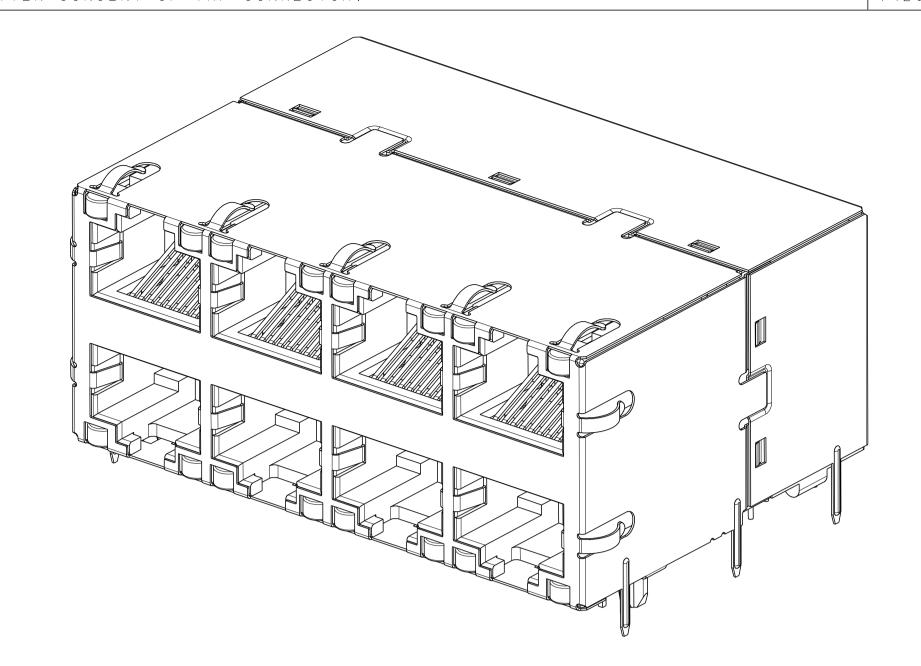
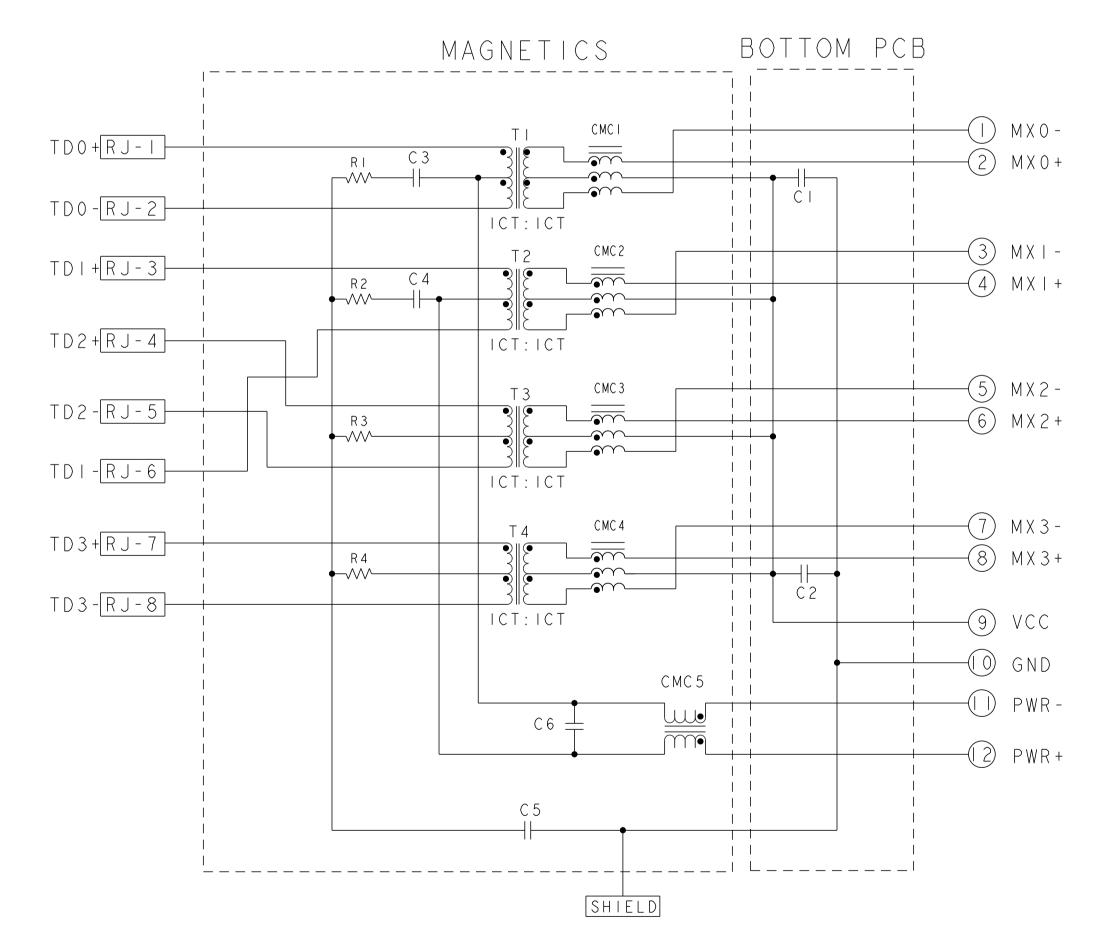
REVISIONS

P LTR DESCRIPTION DATE DWN APVD

4 EC-1411035 COMPANY LOGO CHANGE 18DEC2014 GZ TY



## S9HG104C GIGABIT POE PLUS CIRCUITAA TOP AND BOTTOM PORTS



CI-C2=I0nF, 50V, CAPACITORS
C3-C4=22nF, I00V, CAPACITORS
C5=I000pF, 2kV, CAPACITOR
C6=I00nF, I00V, CAPACITOR
RI-R4=75 OHMS, I/I6W, RESISTORS

I. MATERIALS:
PLASTIC HOUSING: BLACK, THERMOPLASTIC FLAMMABILITY RATING UL 94V-0
SHIELD: BRASS, PREPLATED WITH 0.76 um MIN SEMI-BRIGHT NICKEL,
POST DIPPED WITH 2.54 um MIN SAC SOLDER OR PURE TIN SOLDER TIP ON SOLDER TAILS,
CONTACTS: PHOSPHOR BRONZE, I.27 um MIN OVERALL NICKEL UNDERPLATE
WITH I.27 um MIN GOLD OR WITH SELECT 0.05 um MIN GOLD OVER 0.76 um
MIN PALLADIUM-NICKEL AT MATING INTERFACE AND 2.54 um MIN MATTE
TIN ON SOLDER TAILS.
LED: DIFFUSED EPOXY LENS, CARBON STEEL LEAD FRAME TAILS OF LED
ARE PREPLATED WITH 2.03 um MIN SILVER OVER 1.02 um MIN NICKEL
UNDERPLATE OVER 1.02 um MIN COPPER UNDERPLATE. POST-PLATED WITH
2.54 um MIN MATTE TIN AND/OR SAC SOLDER DIP OR PURE TIN SOLDER DIP

MAGNETICS:

APPLICATION: 10/100/1000 BASE-T, PoE PLUS
IMPEDANCE: 100 OHMS
TURNS RATIO (CHIP:CABLE): 1:1 ALL FOUR PAIRS
OPEN CIRCUIT INDUCTANCE (OCL):

ALL CHANNELS 350 UH MIN @ 100KHz, 0.1 VRMS WITH 8mA DC BIAS FROM 0°C TO 70°C,
120 UH min @ 100KHz, 0.1 VRMS WITH 19 mA DC BIAS FROM 0°C TO 70°C, ACROSS
RJI-RJ2 & RJ3-RJ6.
ALL FOUR PAIRS BI-DIRECTIONAL

POE CURRENT: 600mA DC MAX
PERFORMANCE @25°C:
INSERTION LOSS (IL): I.IdB MAX FROM I.OMHz TO IOOMHz
RETURN LOSS (RL): I8dB MIN FROM I.OMHz TO 40MHz
I2-20LOG(f/80)dB MIN FROM 40.IMHz TO IOOMHz
CROSSTALK ATTENUATION: 35dB MIN FROM I.OMHz TO 40MHz
33-20LOG(f/50)dB MIN FROM 40.IMHz TO IOOMHz
COMMON MODE REJECTION RATIO (CMRR):

30dB MIN FROM 1.0MHz 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 LOCATED IN APPROXIMATE AREA SHOWN DATE CODE: YYWWD WHERE "YY" IS YEAR, "WW" IS WORK WEEK, "D" IS DAY OF WEEK, WITH SUNDAY = I

TRP CONNECTOR LOGO AND AGENCY APPROVAL LOGO ARE LOCATED IN APPROXIMATE AREA SHOWN.

5. OPERATING TEMP: FROM 0°C TO 70°C.

6. RJ45 CAVITY CONFORMS TO FCC RULES AND REGULATION PART 68 SUBPART F.

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

DATUM AND BASIC DIMENSION ESTABLISHED BY CUSTOMER.

DIMENSION ESTABLISHED BY CUSTOMER, BUT MAY NOT BE GREATER THAN 5.08mm.

LEDS ARE DRIVEN WITH CONSTANT CURRENT AT APPROX 20mA

LED COLOR: DOMINANT WAVELENGTH (λ D): GREEN 568 nm TYP. @ IF=20mA

FORWARD VOLTAGE (VF): GREEN 2.2V TYP. @ IF=20mA

DOMINANT WAVELENGTH (λ D): YELLOW 588 nm TYP. @ IF=20mA

FORWARD VOLTAGE (VF): YELLOW 2.1V TYP. @ IF=20mA

108-104004

II. THESE PARTS ARE RECOMMENDED FOR WAVE SOLDERING PROCESS, PEAK TEMPERATURE 260°C FOR IO SECONDS MAX.

	2.60	GREE	N/YELLOW	GREEN/YELLOW		GREEN/YELLOW		WC	GREEN/YELLOW		7 2-184	0861-4	1
	3.81	GREE	N/YELLOW	GREEN/YELLOW		GREE	GREEN/YELLOW		GREEN/YELLOW		/ 1 - 184	0861-4	1
	DIM A	BOTTOM LED NO. 2		BOTTOM LED NO. 1		TC	TOP LED NO. 2			OP LED NO. I	PARI	ΓNO.	<i>J</i>
•			DIMENSIONS:	IENSIONS: TOLERANCES UNLESS OTHERWISE SPECIFIED:		DWN 09DEC2010 RICK LI/ALLEN ZHOU CHK 09DEC2010 TONY YUAN APVD 09DEC2010 KEITH ZHU			TIP CONNECTOR DONGGU				
			mm			MODEL NAME			2 X 4 S 9	HG I O 4C G I G	ABIT PoE+	W / LED	
			PRODUCT SPEC	ANGLES	±- TION SPEC	STACK		SIZE	CHOL CODE			_	İ

CUSTOMER DRAWING

SCALE 4: | SHEET | OF 5 REV 4

