

LOC	DIST	REVISIONS				
		P	LTR	DESCRIPTION	DATE	OWN
AG	00	A		CHANGE PART STATUS TO ACTIVE EC-1003034	22JUL2010	TR
		B		ECO-11-014530	03JUL2011	PP

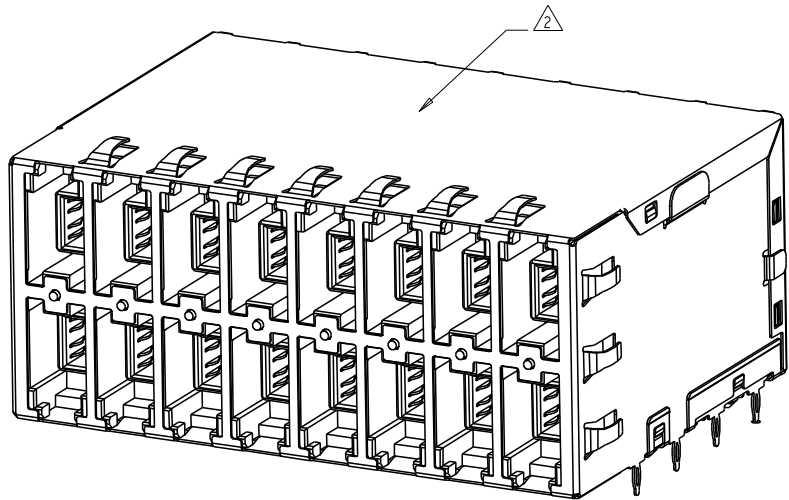
1. MATERIAL:
HOUSING: BLACK, THERMOPLASTIC, RATED UL 94V-0.
SHIELD: COPPER ALLOY WITH NICKEL PLATING.
CONTACTS: PHOSPHER BRONZE.
CONTACT PLATING: 0.05µm MIN GOLD OVER
0.76µm MIN PALLADIUM-NICKEL, AT MATING
INTERFACE CONTACT AREA.
2. TE LOGO, PART NUMBER, DATE CODE AND
COUNTRY OF ORIGIN, SHOWN APPROXIMATE AREA.
3. MAGNETICS:
-APPLICATION: 10/100/1000 BASE -T
- IMPEDANCE: 100 OHMS
- TRANSMIT OPEN CIRCUIT INDUCTANCE (OCL): 350µH (MIN)
@100KHZ, 0.1 VRMS WITH 8mA DC BIAS
FOR EACH TRANSFORMER OVER T=0°C-+70°C.
- TURNS RATIO (CHIP:CABLE): 1:1 ALL PAIRS
PERFORMANCE:
- ALL PAIRS ARE BI-DIRECTIONAL

FREQUENCY	*INSERTION LOSS	RETURN LOSS	CROSSTALK ATTENUATION	COMMON MODE REJECTION RATIO
0.5MHz-1MHz	1.2dB (MAX)	18dB (MIN)	70dB (MIN)	30dB (MIN)
1MHz-40MHz	1.2dB (MAX)	18dB (MIN)	33-20X LOG (F/80)dB (MIN)	30dB (MIN)
40MHz-100MHz	1.2dB (MAX)	12-20X LOG (F/80)dB (MIN)	33-20X LOG (F/80)dB (MIN)	30dB (MIN)
ALL MAGNETIC ELECTRICAL CHARACTERISTICS RATED AT T=25°C				

- ISOLATION VOLTAGE: 2250VDC(MAX) FOR 60 SECONDS WITH A RISE TIME OF 500V/SEC,
WITH ALL PORTS CONNECTED.

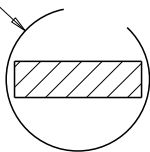
4. LED IS DRIVEN WITH CURRENT AT APPROX 20 mA
DOMINANT WAVELENGTH (λD): GREEN 573 nm TYP AT IF=20mA
FORWARD VOLTAGE (VF): GREEN 2.0V TYP at IF=20mA
DOMINANT WAVELENGTH (λD): RED 624 nm TYP AT IF=20mA
FORWARD VOLTAGE (VF): RED 2.0V TYP at IF=20mA
DOMINANT WAVELENGTH (λD): YELLOW 589 nm TYP AT IF=20mA
FORWARD VOLTAGE (VF): YELLOW 2.0V TYP at IF=20mA
5. RECOMMENDED MIN PCB THICKNESS 1.5mm (.062").
6. OPERATING TEMPERATURE: FROM 0°C TO 70°C.

- △ DATUM AND BASIC DIMENSION ESTABLISHED BY CUSTOMER.
⊠ FOR HOLE SIZE AND PLATINGS, SEE SHEET 5.



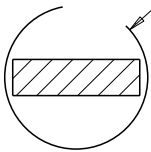
SCALE 3:1

7X (Ø0.79)
⊕ Ø0.3(M) Z Y X ⊗

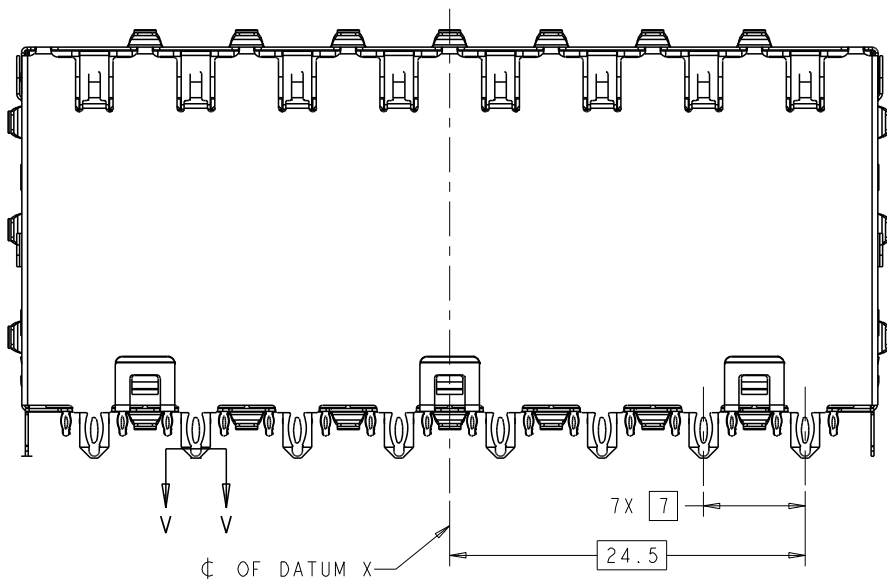
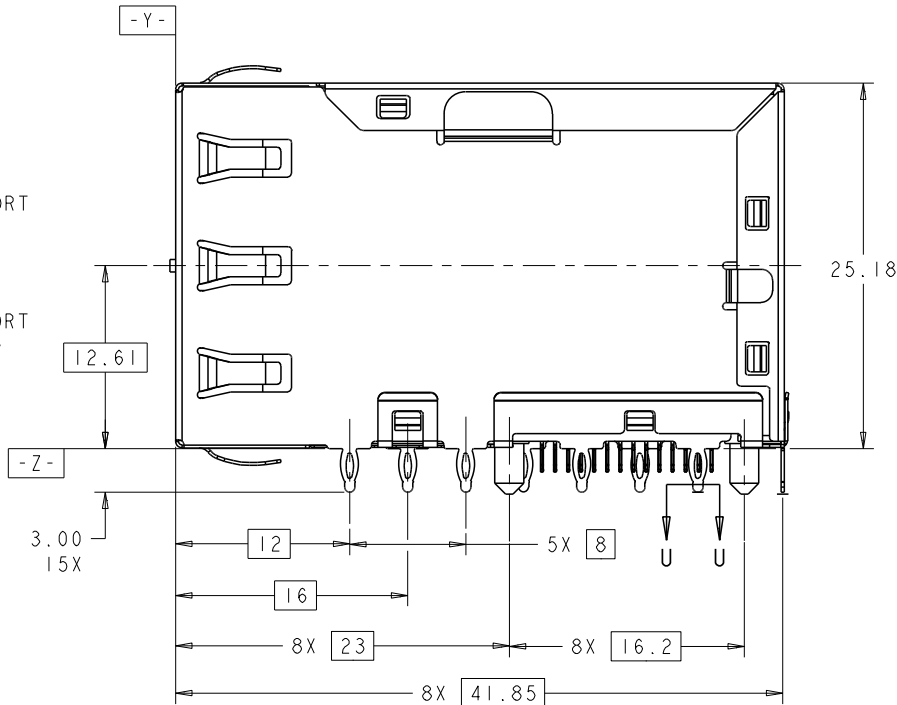
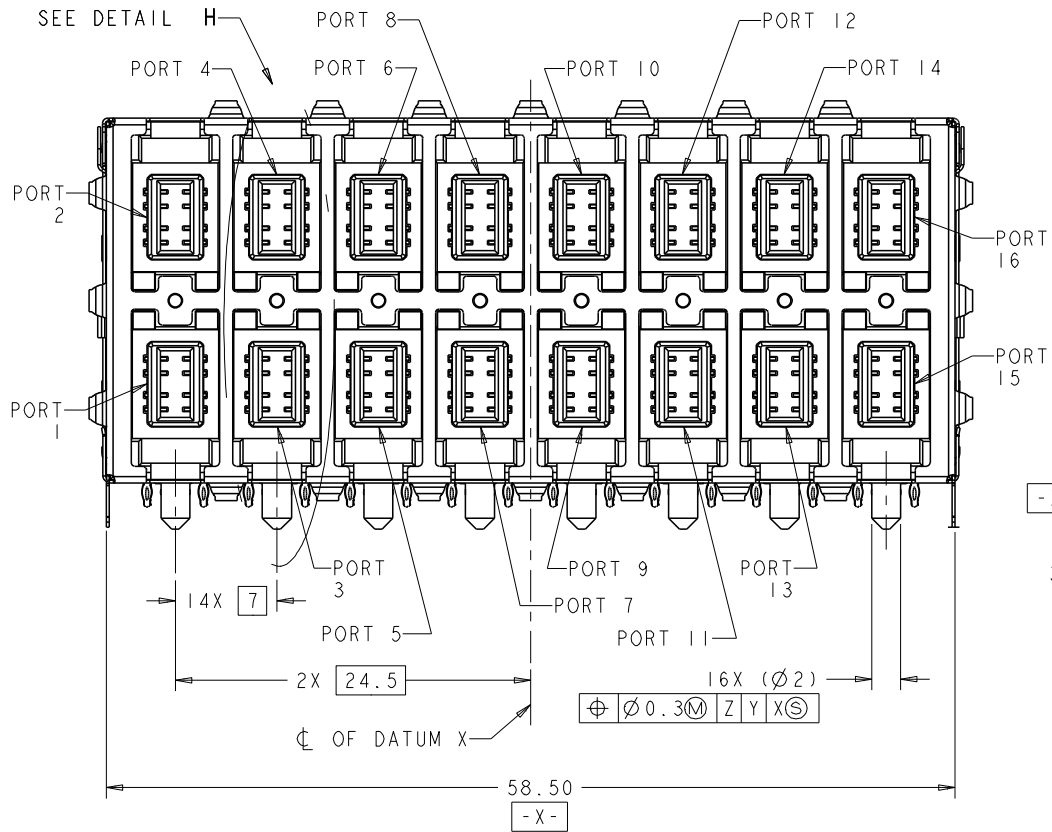


SECTION U-U
SCALE 50:1

8X (Ø0.79)
⊕ Ø0.3(M) Z Y X ⊗



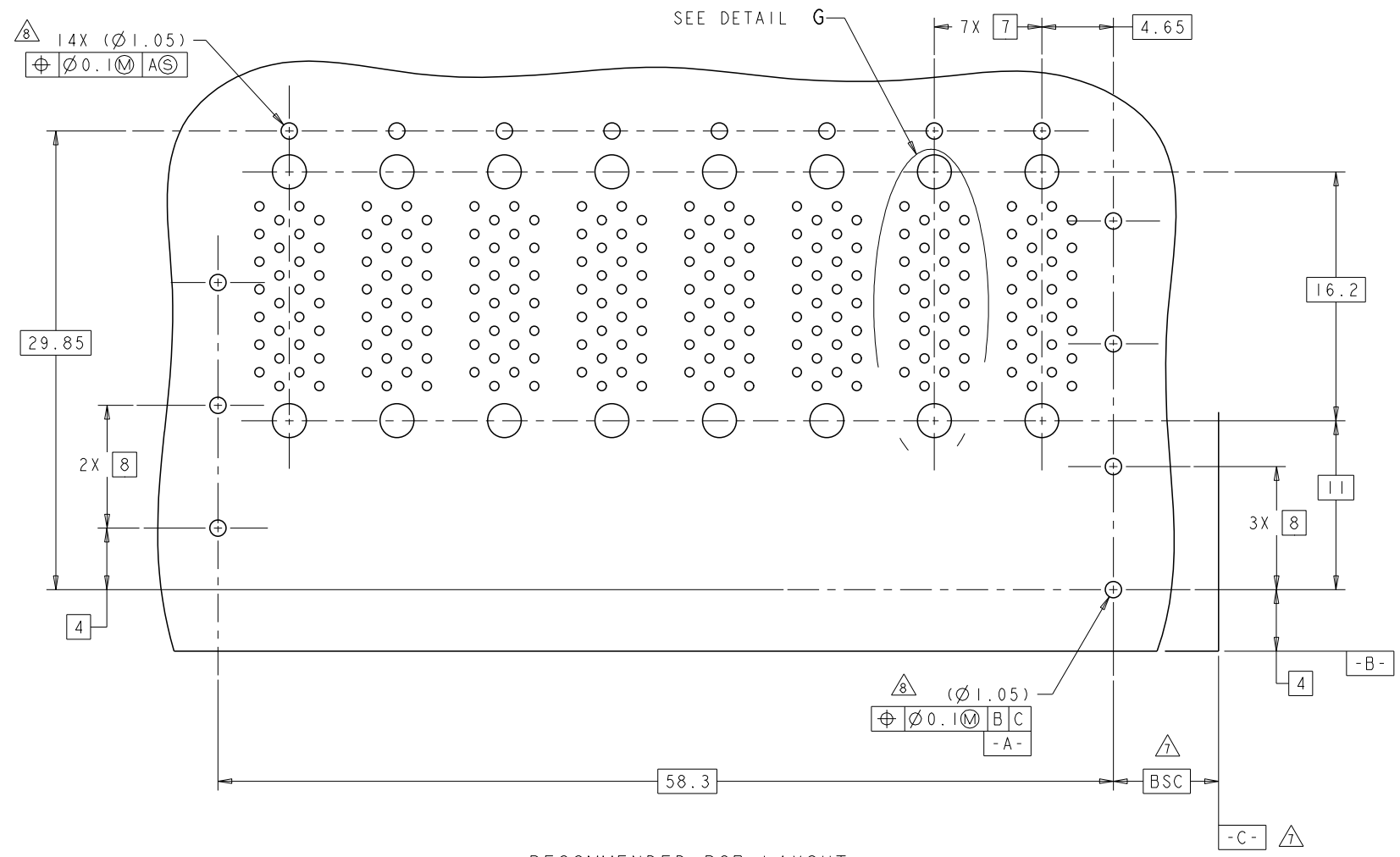
SECTION V-V
SCALE 50:1



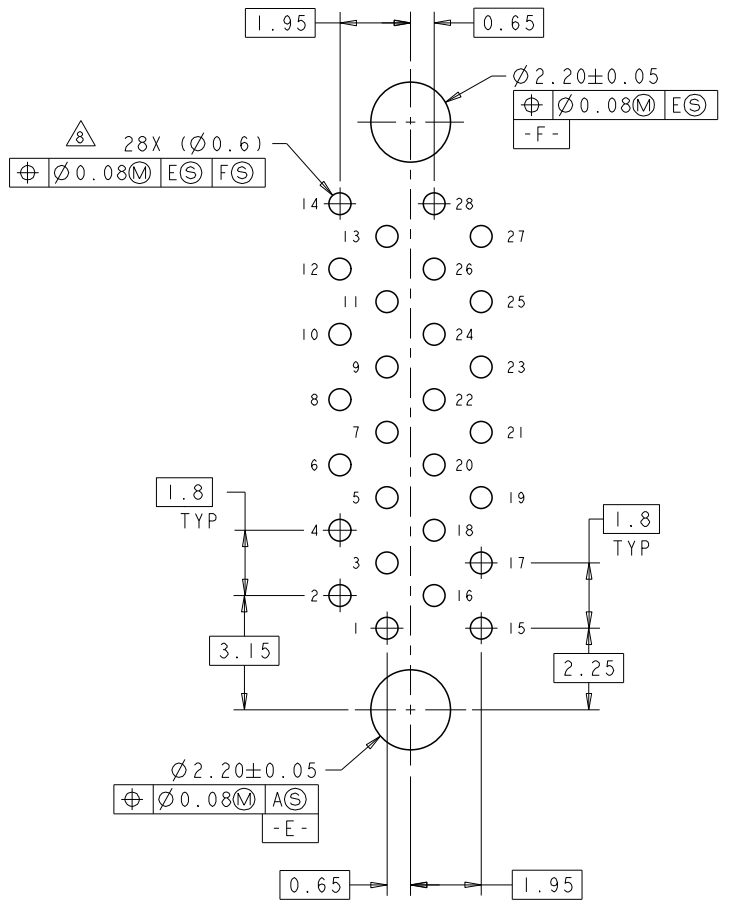
YELLOW/GREEN BI-COLORS	2007669-2
RED/GREEN BI-COLORS	2007669-1
LED COLORS	PART NUMBER

THIS DRAWING IS A CONTROLLED DOCUMENT.		OWN R. TREA 30JAN2008	TE Connectivity	
DIMENSIONS: mm		CHK R. HENRY 30JAN2008	NAME RECEPTACLE ASSEMBLY, 2X8, RJ POINT FIVE, NON POE WITH MAGNETICS	
TOLERANCES UNLESS OTHERWISE SPECIFIED:		APPRO R. HENRY 30JAN2008	SIZE A	
0 PLC ±		PRODUCT SPEC	CAGE CODE 00779	
1 PLC ±		APPLICATION SPEC	DRAWING NO 2007669	
2 PLC ±		WEIGHT	RESTRICTED TO	
3 PLC ±		CUSTOMER DRAWING	SCALE 4:1	
4 PLC ±			SHEET 1	
ANGLES ±			OF 5	
FINISH ±			REV B	

LOC	DIST	REVISIONS			
		P	LTR	DESCRIPTION	DATE
AG	00	-	-	SEE SHEET 1	-

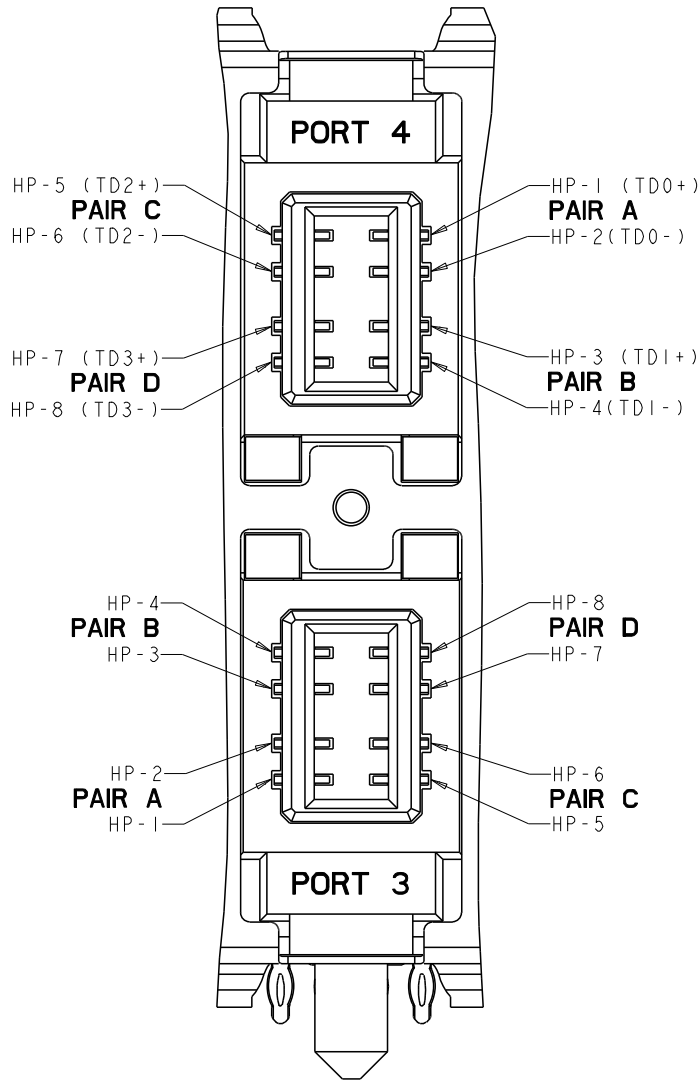
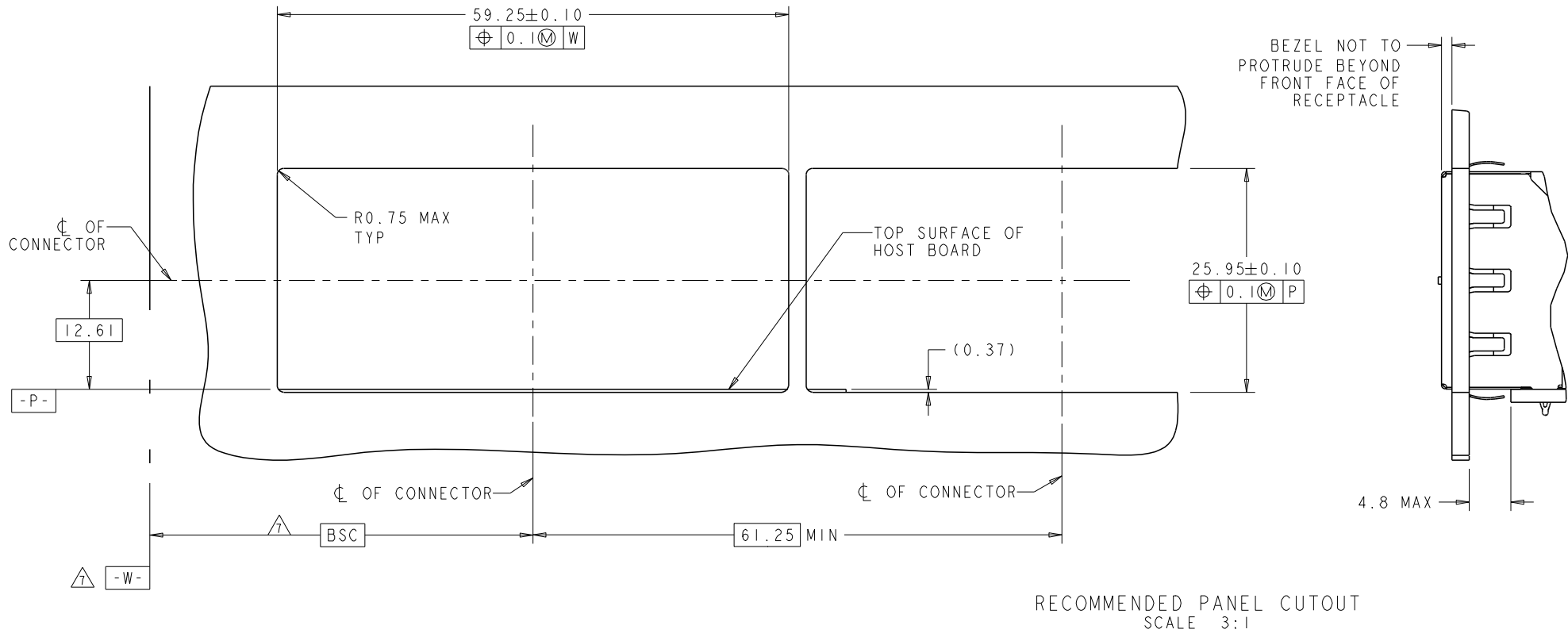


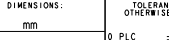
RECOMMENDED PCB LAYOUT
SCALE 5:1



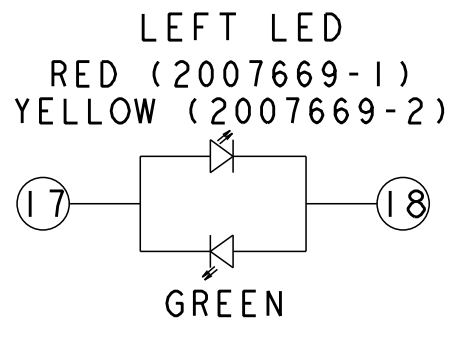
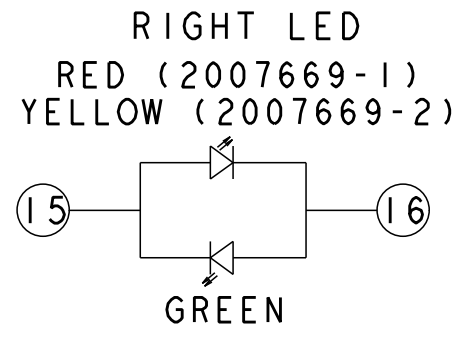
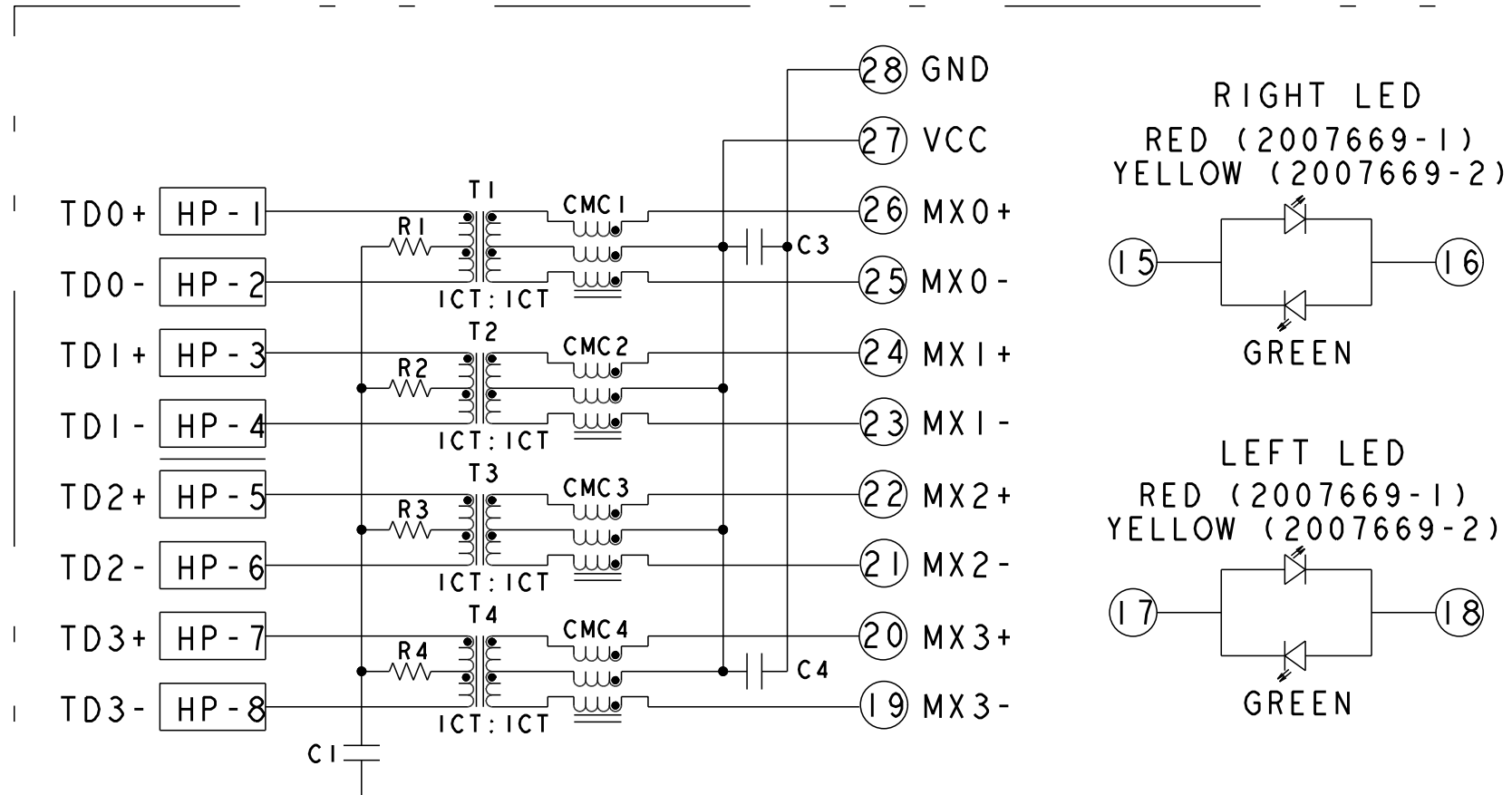
DETAIL G
BOARD PIN IDENTIFIERS
SCALE 10:1

LOC	DIST	REVISIONS				DATE	DWN	APVD
		P	LTR	DESCRIPTION				
AG	00	-	-	SEE SHEET 1		-	-	-



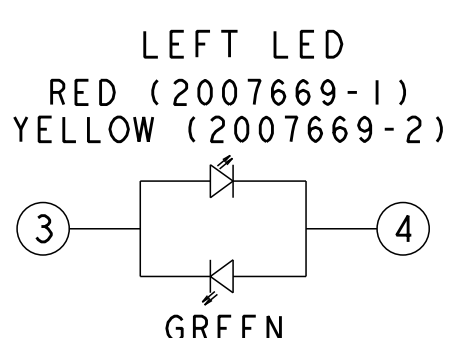
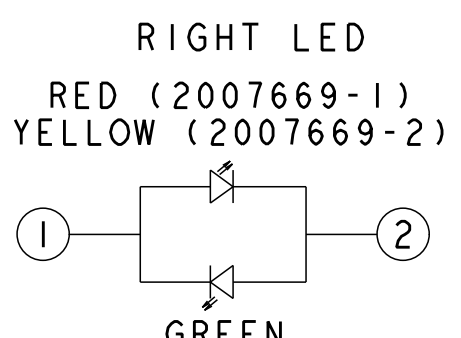
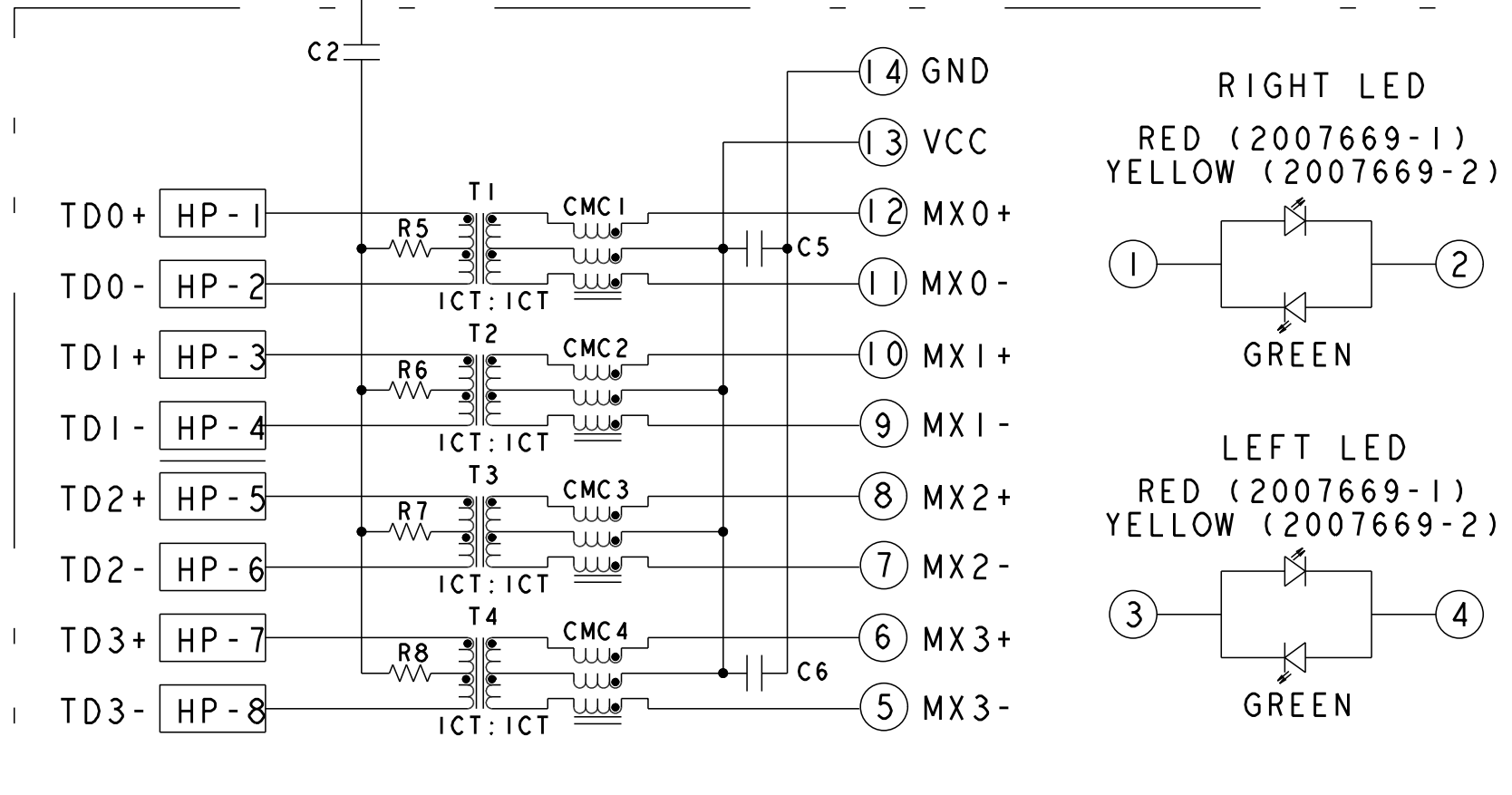
THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN R. TREA 30 JAN 2008	 TE Connectivity	
DIMENSIONS: mm		CHK R. HENRY 30 JAN 2008		
		APVD R. HENRY 30 JAN 2008	NAME RECEPTACLE ASSEMBLY, 2X8, RJ POINT FIVE, NON POE WITH MAGNETICS	
		PRODUCT SPEC	SIZE A	
TOLERANCES UNLESS OTHERWISE SPECIFIED:		APPLICATION SPEC	CAGE CODE 00779	DRAWING NO 2007669
0 PLC ±		WEIGHT -	RESTRICTED TO -	
1 PLC ±		CUSTOMER DRAWING	SCALE 4:1	
2 PLC ±0.25			SHEET 3	
3 PLC ±			OF 5	
4 PLC ±			REV B	
ANGLES ±°				
FINISH				

LOC		DIST		REVISONS			
P	LTR	DESCRIPTION	DATE	DWN	APVD		
		SEE SHEET 1					



S5G73 GIGABIT SCHEMATIC

TOP PORT

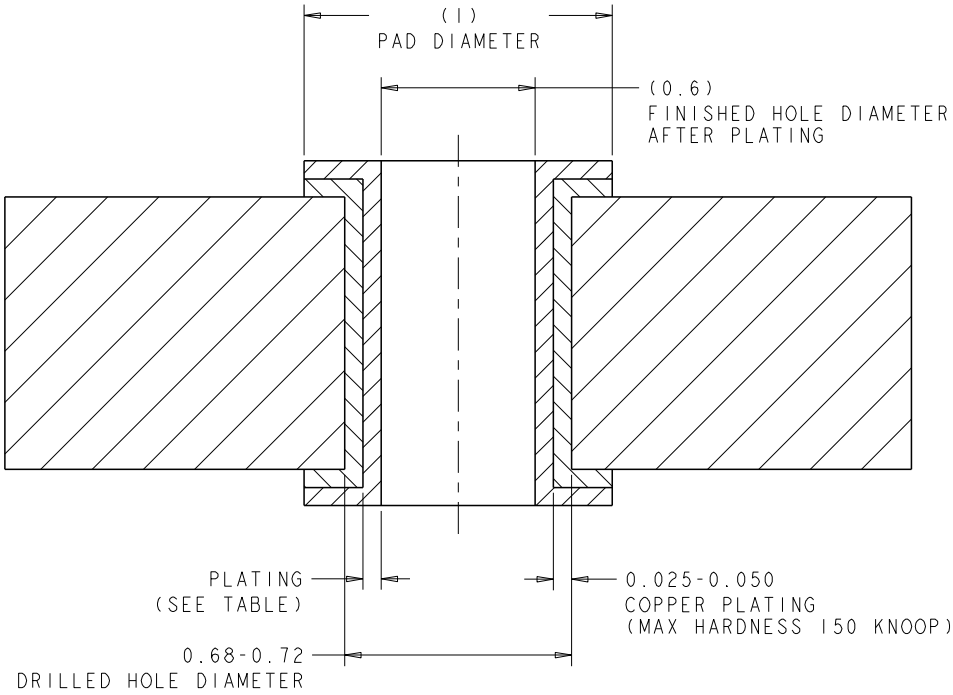


BOTTOM
PORT

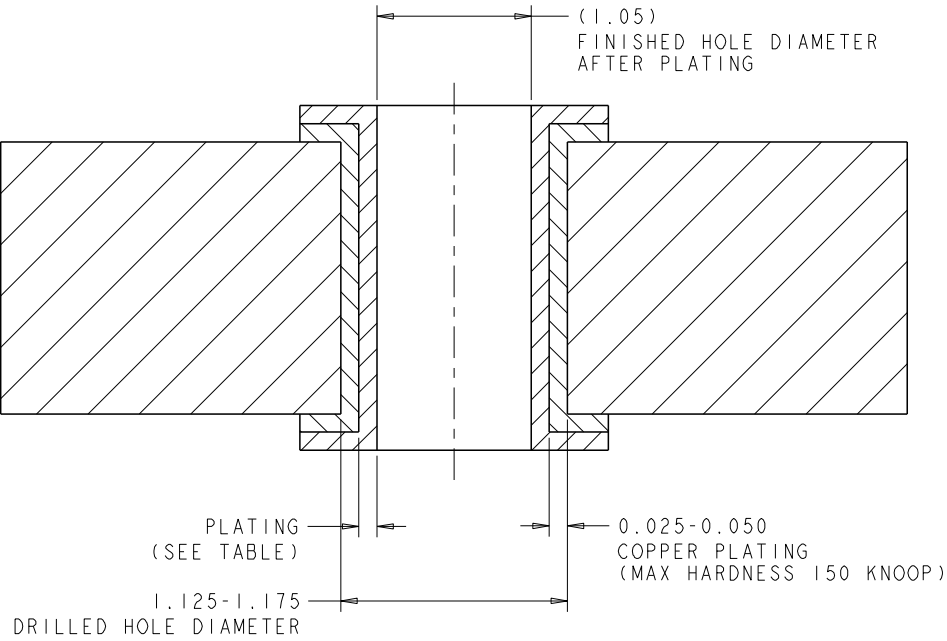
C1-C2 = 1000 pF, 2kV DE-COUPLING CAPACITORS
C3-C6 = 0.01uF, 50V, CAPACITORS
R1-R8 = 75 Ohm, 1/16W, RESISTORS

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TOLERANCES UNLESS OTHERWISE SPECIFIED: 0 PLC ± 1 PLC ± 2 PLC ±0.25 3 PLC ± 4 PLC ± ANGLES ±°		APVD R. HENRY 30JAN2008	RESTRICTED TO	
MATERIAL		PRODUCT SPEC	SIZE A	
FINISH		APPLICATION SPEC	CAGE CODE 00779	
		WEIGHT	DRAWING NO C=2007669	
		CUSTOMER DRAWING	SCALE 4:1	
			SHEET 4	
			OF 5	
			REV B	

LOC	DIST	REVISIONS				
P	LTR	DESCRIPTION	DATE	DWN	APVD	
-	-	SEE SHEET 1	-	-	-	



RECOMMENDED HOLE DIMENSIONS
FOR SIGNAL CONTACTS



RECOMMENDED HOLE DIMENSIONS
FOR SHIELD PINS

THICKNESS	PLATING
0.004-0.010	HOT AIR SOLDER LEVELING (HASL) TIN-LEAD (Sn Pb)
0.0005-0.001	IMMERSION TIN (Sn)
0.0002-0.0005	ORGANIC SOLDERABILITY PRESERVATIVE (OSP)
0.0001-0.0005 Au, 0.004-0.0076 Ni	IMMERSION GOLD (Au) OVER NICKEL (Ni) (ENIG)
0.010-0.025	TIN LEAD PLATING (Sn Pb)
0.0001-0.00015	IMMERSION SILVER (Ag)

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0 PLC ±		PRODUCT SPEC	SIZE A	
1 PLC ±		APPLICATION SPEC	CAGE CODE 00779	
2 PLC ±0.25		WEIGHT	DRAWING NO 2007669	
3 PLC ±		CUSTOMER DRAWING	RESTRICTED TO -	
4 PLC ±		SCALE 4:1	SHEET 5	
ANGLES ±°		OF 5	REV B	
FINISH				