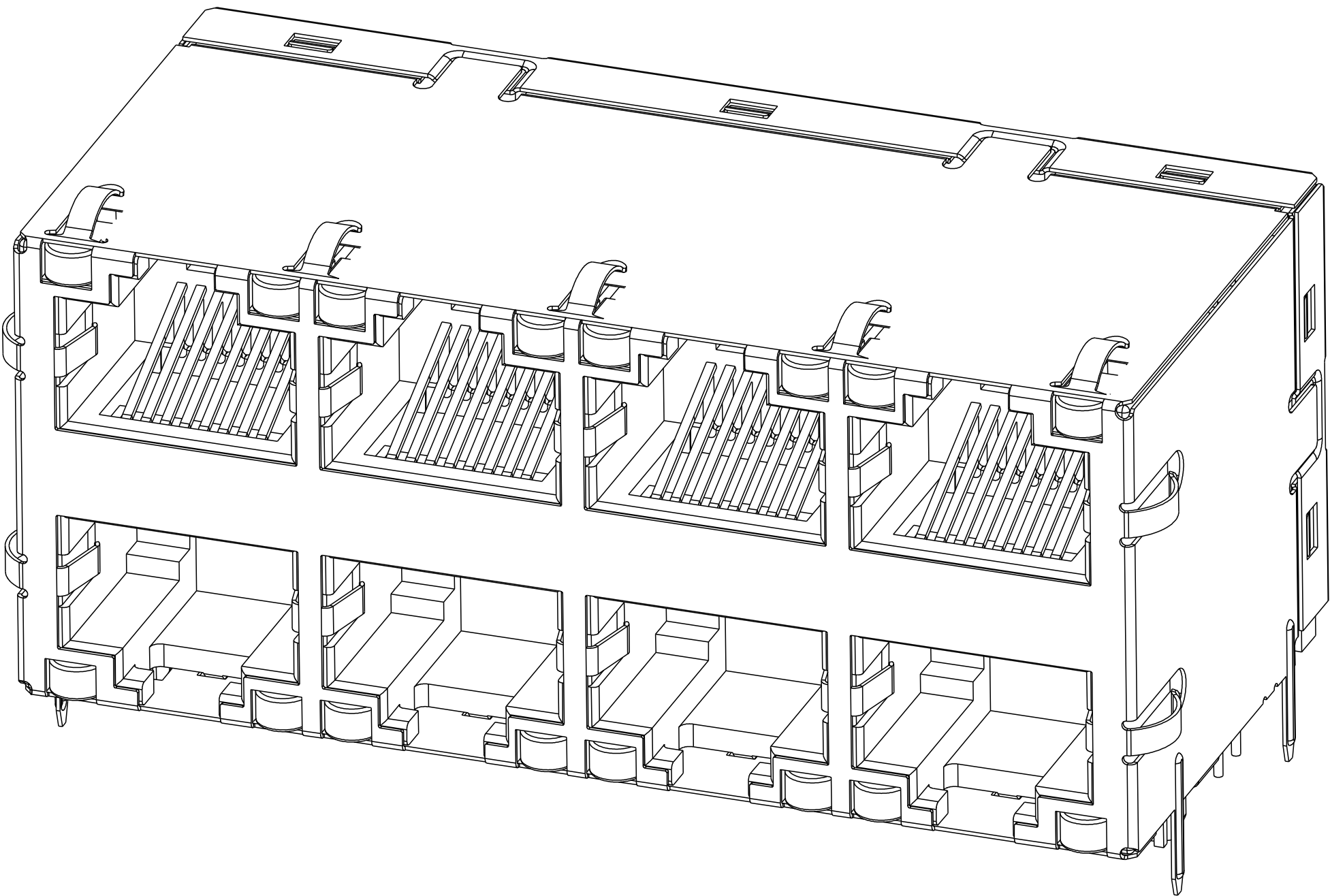
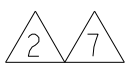
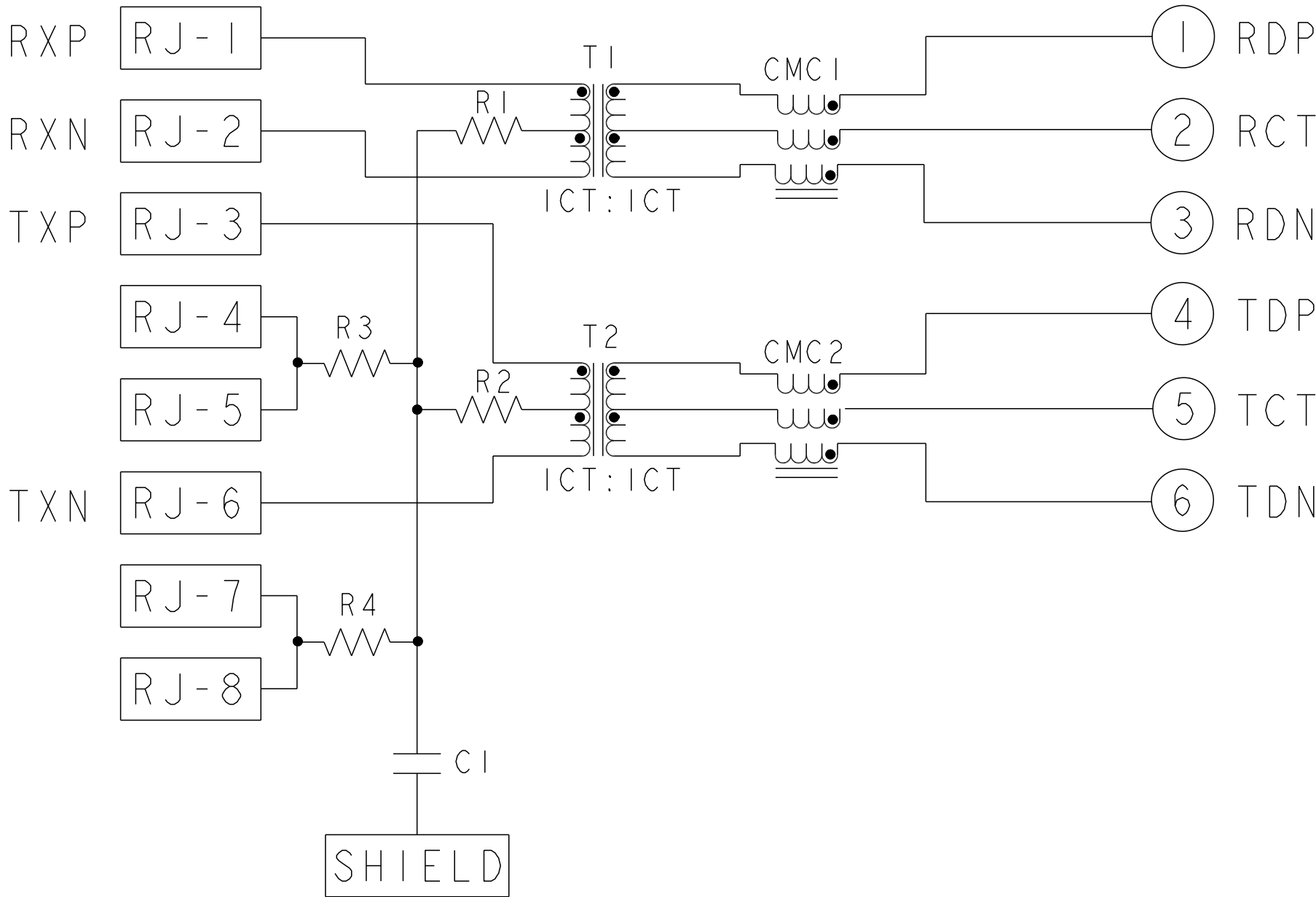




S8137 10/100 BASE-T CIRCUIT 
TOP AND BOTTOM PORTS



R1 - R4 = 75 Ohms, RESISTORS
C1 = 1000pF, 3kV CAPACITOR

- I. MATERIALS:
PLASTIC HOUSING: BLACK, THERMOPLASTIC 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, 1.27um MIN OVERALL NICKEL UNDERPLATE,
WITH SELECT 1.27um MIN GOLD AT MATING INTERFACE AND 2.54um MIN
MATTE TIN ON SOLDER TAILS.
LED: DIFFUSED EPOXY LENS, CARBON STEEL LEAD FRAME TAILS OF LED
ARE PREPLATED WITH 2.03um MIN SILVER OVER 1.02um MIN NICKEL
UNDERPLATE OVER 1.02um MIN COPPER UNDERPLATE. POST-PLATED WITH
2.54um MIN MATTE TIN AND/OR SAC SOLDER DIP OR PURE TIN SOLDER DIP

-  MAGNETICS
APPLICATION: 10/100 BASE-T
IMPEDANCE: 100 OHMS
TURNS RATIO (CHIP:CABLE): TX = 1:1, RX = 1:1
OPEN CIRCUIT INDUCTANCE (OCL): 350uH MIN @100kHz, 0.1VRMS,
8mADC BIAS FROM 0°C TO 70°C, TX AND RX
PERFORMANCE @ 25°C:
INSERTION LOSS (IL): 1.1dB MAX FROM 0.5MHz TO 100MHz
RETURN LOSS (RL): 18dB MIN FROM 0.5MHz TO 30MHz
18-20LOG(f/30)dB MIN FROM 30.1MHz TO 60MHz
12dB MIN FROM 60.1MHz TO 80MHz
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 APPROXIMATE AREA SHOWN.

-  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.

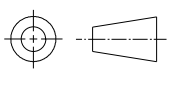
-  INDICATED MAGNETIC CONNECTIONS ARE SYMMETRICAL AND
SUPPORT AUTO-MDI/MDIX.

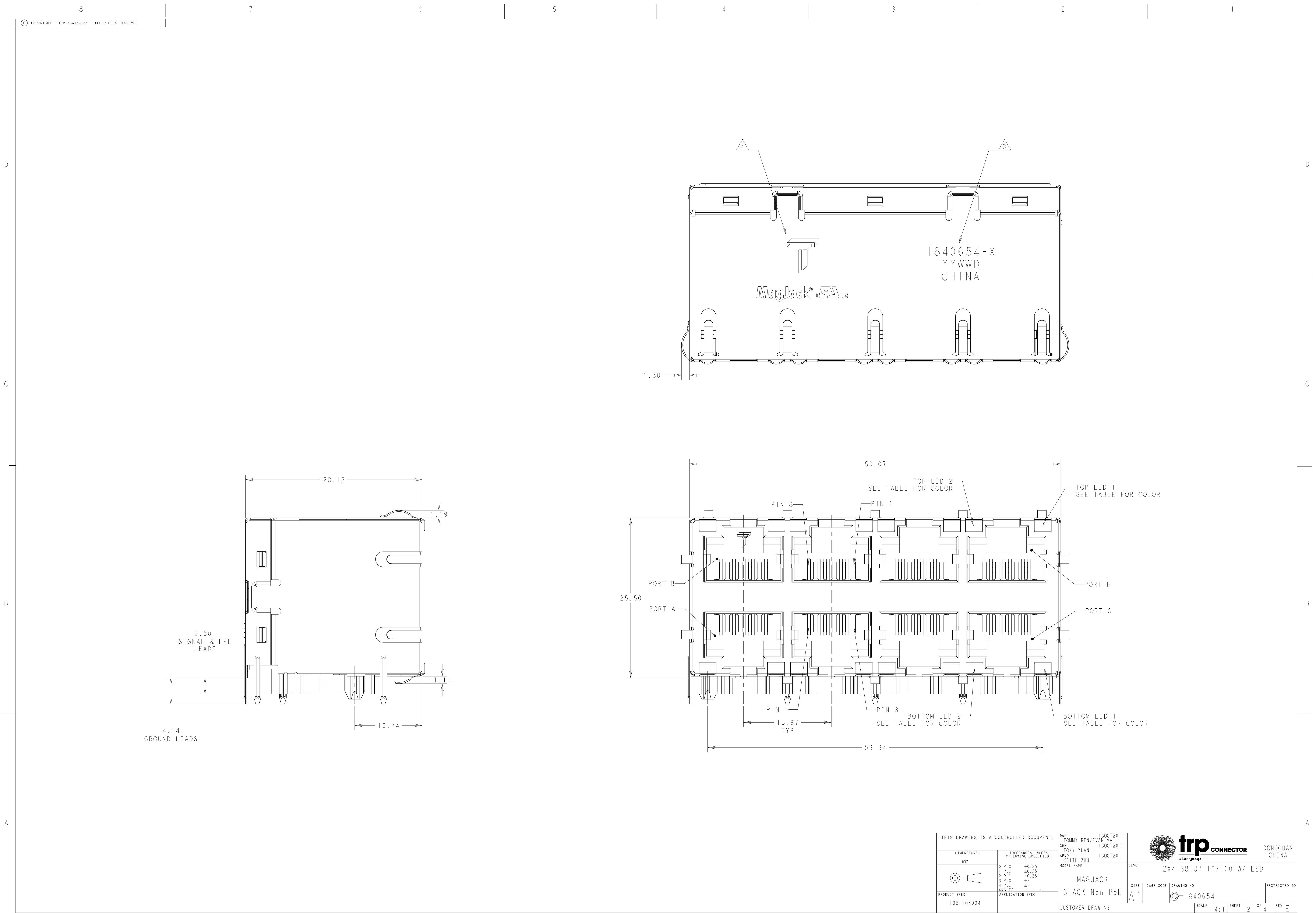
-  DATUM AND BASIC DIMENSION ESTABLISHED BY CUSTOMER.

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

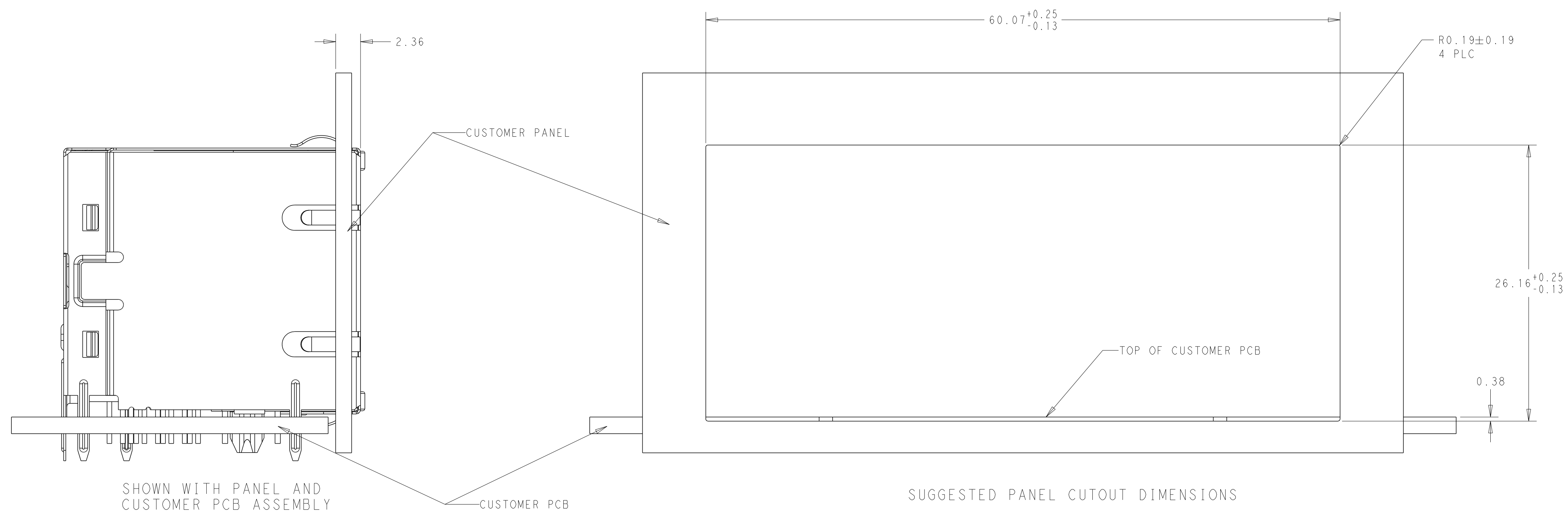
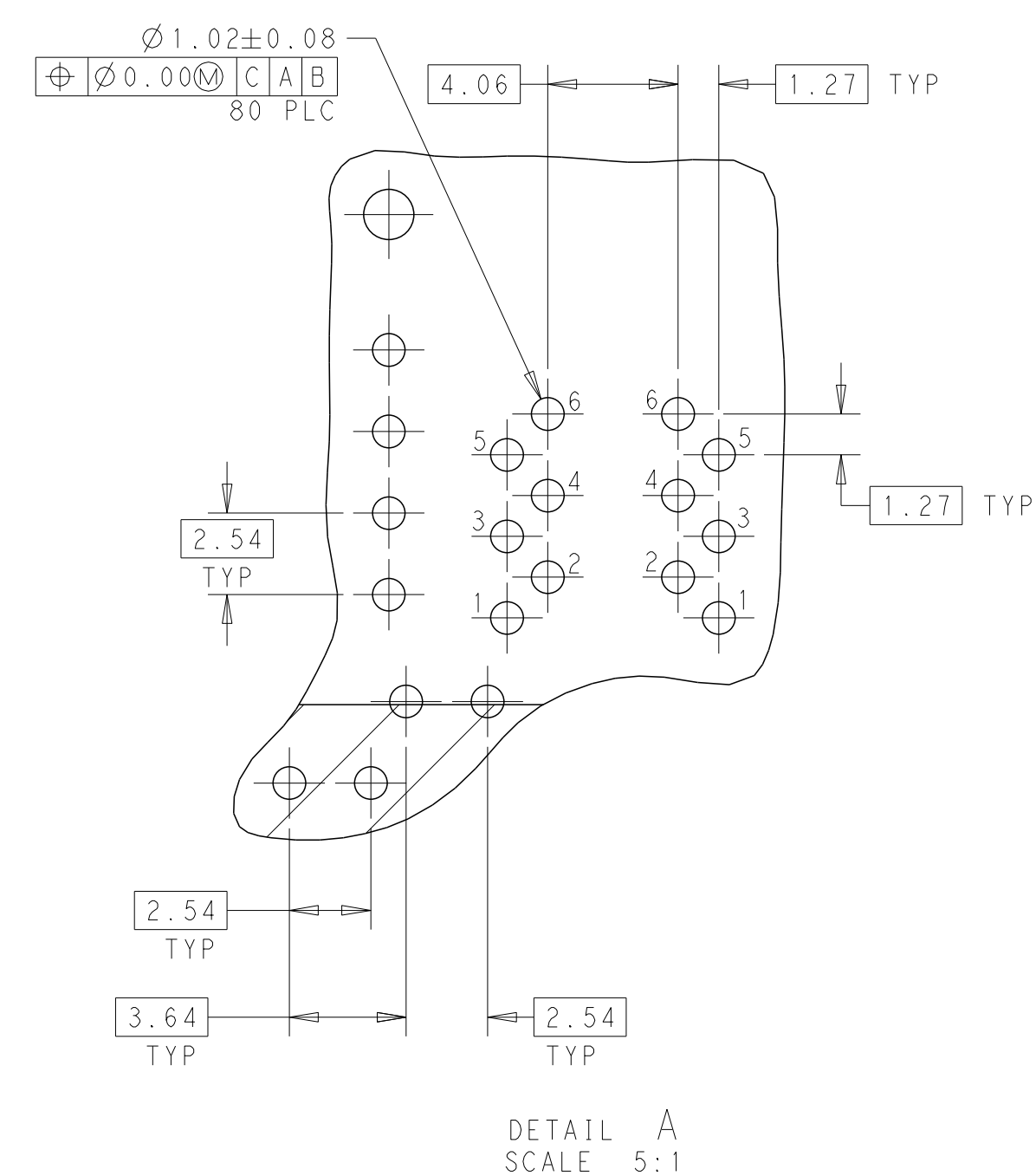
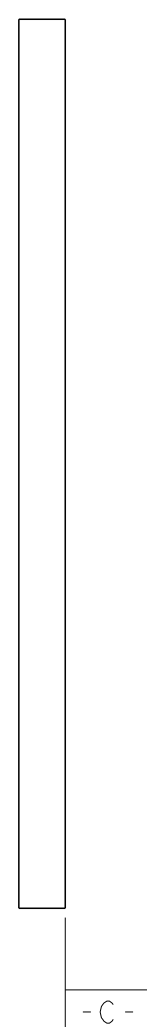
-  LEDS ARE DRIVEN WITH CONSTANT CURRENT AT APPROX 20mA
LED COLOR: DOMINANT WAVELENGTH (λD): GREEN 568 nm TYP. @ IF=20mA
FORWARD VOLTAGE (VF): GREEN 2.2V TYP. @ IF=20mA

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

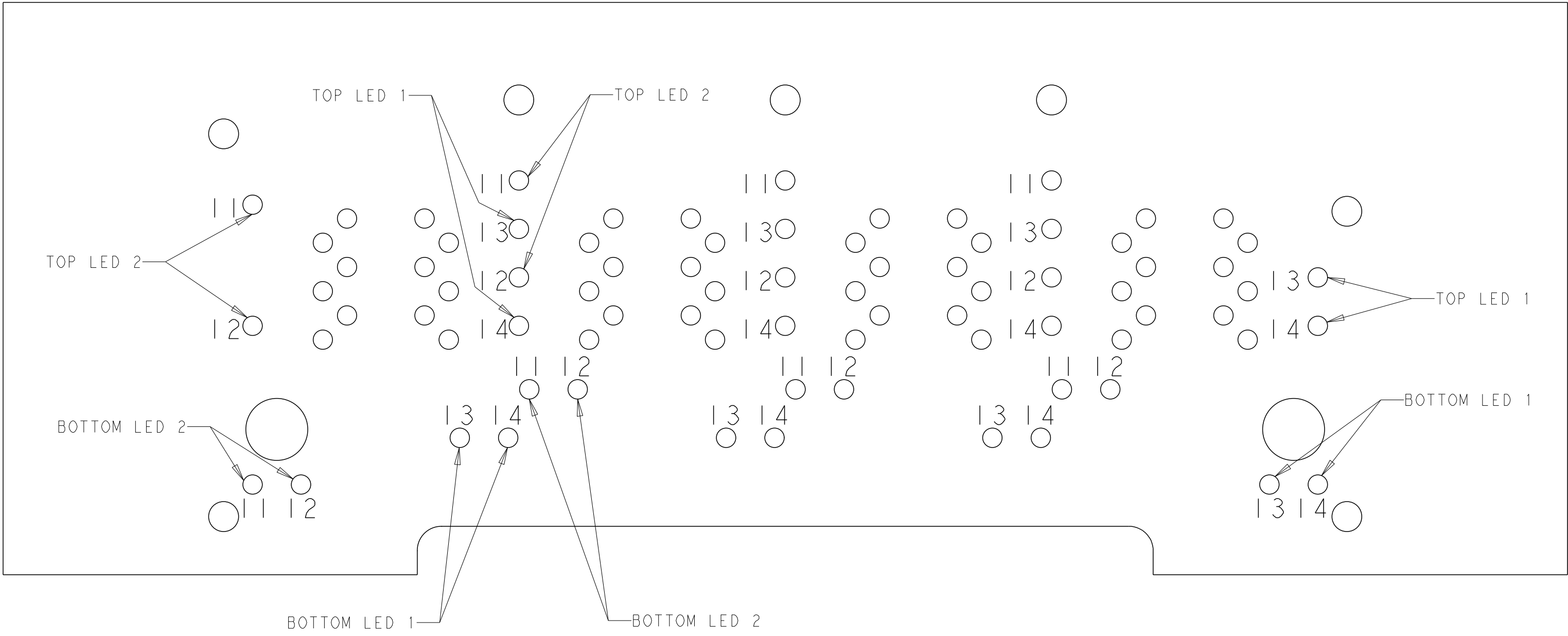
GREEN		GREEN	GREEN	GREEN	1840654-1
BOTTOM LED 2		BOTTOM LED 1	TOP LED 2	TOP LED 1	PART NUMBER
THIS DRAWING IS A CONTROLLED DOCUMENT.		OWN TOMMY REN/EVAN MA 13OCT2011	 trp CONNECTOR a bel group DONGGUAN CHINA		
DIMENSIONS: mm		CHK TONY YUAN 13OCT2011			
		APVD KEITH ZHU 13OCT2011			
TOLERANCES UNLESS OTHERWISE SPECIFIED: 0 PLC ±0.25 1 PLC ±0.25 2 PLC ±0.25 3 PLC ± 4 PLC ± ANGLES ±°		MODEL NAME MAGJACK STACK Non-PoE			
PRODUCT SPEC 108-104004		APPLICATION SPEC -	DESC 2X4 S8137 10/100 W/ LED		
		SIZE A1			RESTRICTED TO
		CAGE CODE 1840654			
		DRAWING NO 1840654			
		CUSTOMER DRAWING			
		SCALE 4:1			
		SHEET 1			
		OF 4			
		REV E			



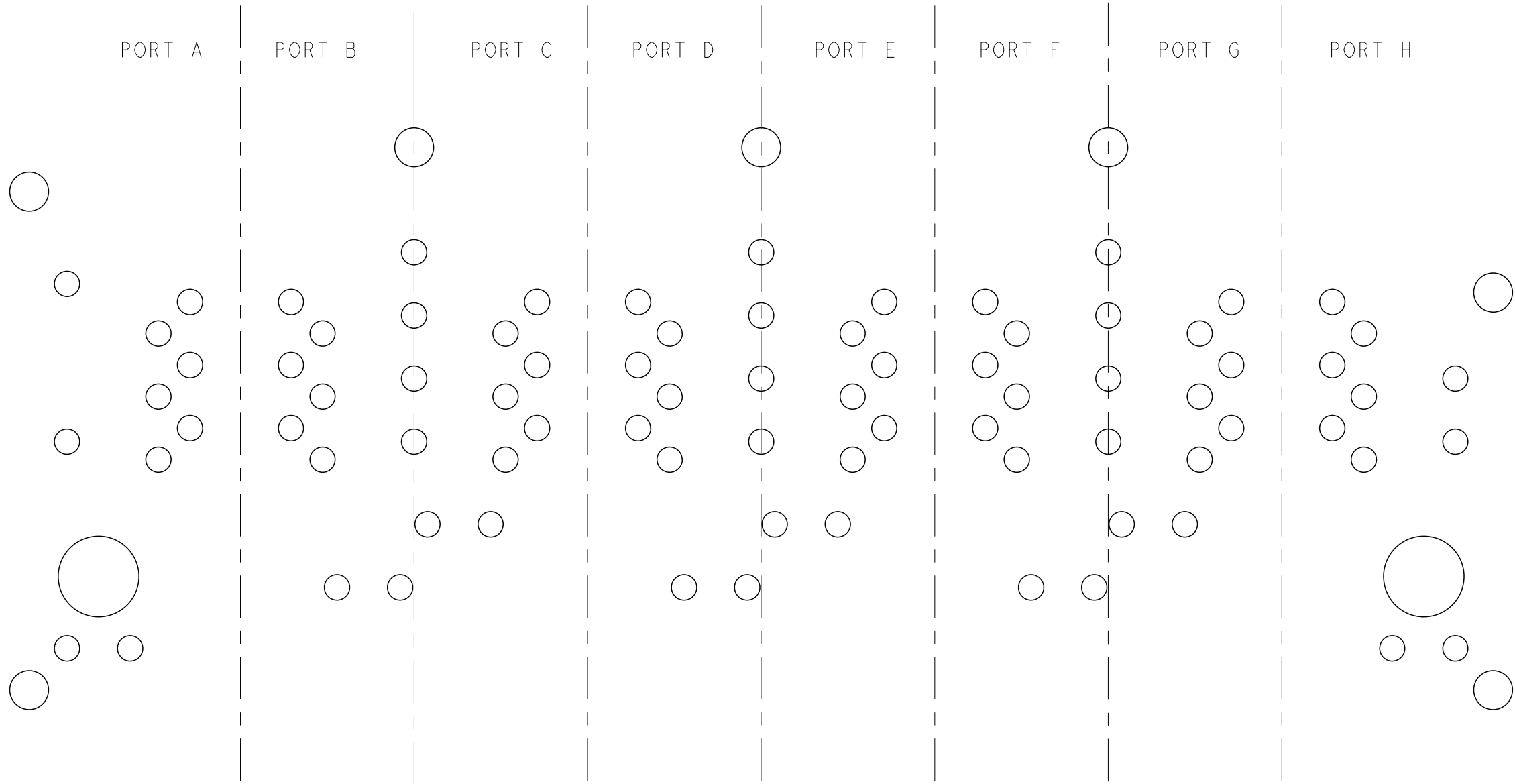
THIS DRAWING IS A CONTROLLED DOCUMENT.		DRN TOMMY REN/EVAN MA 13OCT2011	 trp CONNECTOR a bel group		DONGGUAN CHINA	
DIMENSIONS: mm		CHK TONY YUAN 13OCT2011				
TOLERANCES UNLESS OTHERWISE SPECIFIED:		APVD KEITH ZHU 13OCT2011	MODEL NAME		DESC 2X4 S8137 10/100 W/ LED	
PRODUCT SPEC 108-104004		MAGJACK STACK Non-PoE		SIZE A 1	CAGE CODE C=1840654	RESTRICTED TO
APPLICATION SPEC		CUSTOMER DRAWING		SCALE 4:1	SHEET 2 OF 4	REV E



THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN TOMMY REN/EVAN MA 130CZ011 CHN CHEN TONY YUAN 130CZ011 APVD KEITH ZHU 130CZ011		 trp CONNECTOR a bel group		DONGGUAN CHINA	
DIMENSIONS: mm		TOLERANCES UNLESS OTHERWISE SPECIFIED: 0 PLC ±0.25 1 PLC ±0.25 2 PLC ±0.25 3 PLC ± 4 PLC ± ANGLES ±°		MODEL NAME MAGJACK		DESC 2X4 S8137 10/100 W/ LED	
		APPLICATION SPEC -		SIZE A 1		CAGE CODE C=1840654	
PRODUCT SPEC 108-104004				DRAWING NO C=1840654		RESTRICTED TO F	
CUSTOMER DRAWING				SCALE 4:1		SHEET 3 of 4	
				REV F			

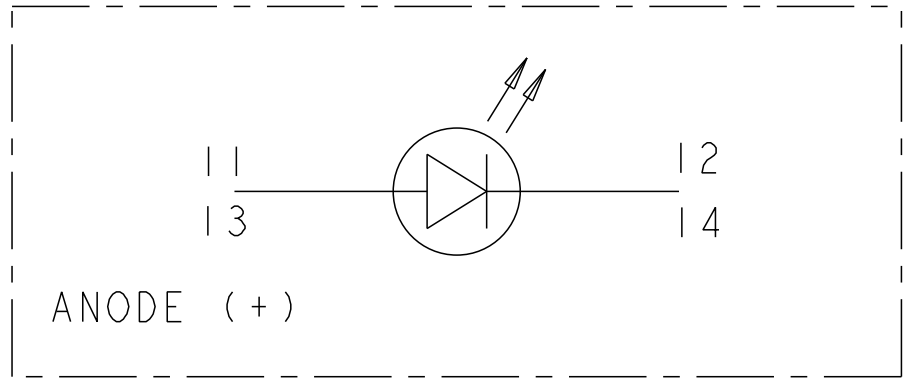


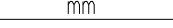
LED HOLE DESIGNATIONS
COMPONENT SIDE VIEW



PORT ASSIGNMENT
COMPONENT SIDE VIEW

SINGLE COLOR LED



THIS DRAWING IS A CONTROLLED DOCUMENT.		DRW TOMMY REN/EVAN MA 13OCT2011			trp CONNECTOR a bel group		DONGGUAN CHINA	
DIMENSIONS: mm		CHK TONY YUAN 13OCT2011						
TOLERANCES UNLESS OTHERWISE SPECIFIED:		APVD KEITH ZHU 13OCT2011						
		P 0 LC ±0.25 P 1 LC ±0.25 P 2 LC ±0.25 P 3 LC ±0.25 P 4 LC ±0.25 P 5 LC ±0.25 P 6 LC ±0.25 P 7 LC ±0.25 P 8 LC ±0.25 P 9 LC ±0.25 P 10 LC ±0.25 P 11 LC ±0.25 P 12 LC ±0.25 P 13 LC ±0.25 P 14 LC ±0.25 P 15 LC ±0.25 P 16 LC ±0.25 P 17 LC ±0.25 P 18 LC ±0.25 P 19 LC ±0.25 P 20 LC ±0.25 P 21 LC ±0.25 P 22 LC ±0.25 P 23 LC ±0.25 P 24 LC ±0.25 P 25 LC ±0.25 P 26 LC ±0.25 P 27 LC ±0.25 P 28 LC ±0.25 P 29 LC ±0.25 P 30 LC ±0.25 P 31 LC ±0.25 P 32 LC ±0.25 P 33 LC ±0.25 P 34 LC ±0.25 P 35 LC ±0.25 P 36 LC ±0.25 P 37 LC ±0.25 P 38 LC ±0.25 P 39 LC ±0.25 P 40 LC ±0.25 P 41 LC ±0.25 P 42 LC ±0.25 P 43 LC ±0.25 P 44 LC ±0.25 P 45 LC ±0.25 P 46 LC ±0.25 P 47 LC ±0.25 P 48 LC ±0.25 P 49 LC ±0.25 P 50 LC ±0.25 P 51 LC ±0.25 P 52 LC ±0.25 P 53 LC ±0.25 P 54 LC ±0.25 P 55 LC ±0.25 P 56 LC ±0.25 P 57 LC ±0.25 P 58 LC ±0.25 P 59 LC ±0.25 P 60 LC ±0.25 P 61 LC ±0.25 P 62 LC ±0.25 P 63 LC ±0.25 P 64 LC ±0.25 P 65 LC ±0.25 P 66 LC ±0.25 P 67 LC ±0.25 P 68 LC ±0.25 P 69 LC ±0.25 P 70 LC ±0.25 P 71 LC ±0.25 P 72 LC ±0.25 P 73 LC ±0.25 P 74 LC ±0.25 P 75 LC ±0.25 P 76 LC ±0.25 P 77 LC ±0.25 P 78 LC ±0.25 P 79 LC ±0.25 P 80 LC ±0.25 P 81 LC ±0.25 P 82 LC ±0.25 P 83 LC ±0.25 P 84 LC ±0.25 P 85 LC ±0.25 P 86 LC ±0.25 P 87 LC ±0.25 P 88 LC ±0.25 P 89 LC ±0.25 P 90 LC ±0.25 P 91 LC ±0.25 P 92 LC ±0.25 P 93 LC ±0.25 P 94 LC ±0.25 P 95 LC ±0.25 P 96 LC ±0.25 P 97 LC ±0.25 P 98 LC ±0.25 P 99 LC ±0.25 P 100 LC ±0.25 P 101 LC ±0.25 P 102 LC ±0.25 P 103 LC ±0.25 P 104 LC ±0.25 P 105 LC ±0.25 P 106 LC ±0.25 P 107 LC ±0.25 P 108 LC ±0.25 P 109 LC ±0.25 P 110 LC ±0.25 P 111 LC ±0.25 P 112 LC ±0.25 P 113 LC ±0.25 P 114 LC ±0.25 P 115 LC ±0.25 P 116 LC ±0.25 P 117 LC ±0.25 P 118 LC ±0.25 P 119 LC ±0.25 P 120 LC ±0.25 P 121 LC ±0.25 P 122 LC ±0.25 P 123 LC ±0.25 P 124 LC ±0.25 P 125 LC ±0.25 P 126 LC ±0.25 P 127 LC ±0.25 P 128 LC ±0.25 P 129 LC ±0.25 P 130 LC ±0.25 P 131 LC ±0.25 P 132 LC ±0.25 P 133 LC ±0.25 P 134 LC ±0.25 P 135 LC ±0.25 P 136 LC ±0.25 P 137 LC ±0.25 P 138 LC ±0.25 P 139 LC ±0.25 P 140 LC 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207 LC ±0.25 P 208 LC ±0.25 P 209 LC ±0.25 P 210 LC ±0.25 P 211 LC ±0.25 P 212 LC ±0.25 P 213 LC ±0.25 P 214 LC ±0.25 P 215 LC ±0.25 P 216 LC ±0.25 P 217 LC ±0.25 P 218 LC ±0.25 P 219 LC ±0.25 P 220 LC ±0.25 P 221 LC ±0.25 P 222 LC ±0.25 P 223 LC ±0.25 P 224 LC ±0.25 P 225 LC ±0.25 P 226 LC ±0.25 P 227 LC ±0.25 P 228 LC ±0.25 P 229 LC ±0.25 P 230 LC ±0.25 P 231 LC ±0.25 P 232 LC ±0.25 P 233 LC ±0.25 P 234 LC ±0.25 P 235 LC ±0.25 P 236 LC ±0.25 P 237 LC ±0.25 P 238 LC ±0.25 P 239 LC ±0.25 P 240 LC ±0.25 P 241 LC ±0.25 P 242 LC ±0.25 P 243 LC ±0.25 P 244 LC ±0.25 P 245 LC ±0.25 P 246 LC ±0.25 P 247 LC ±0.25 P 248 LC ±0.25 P 249 LC ±0.25 P 250 LC ±0.25 P 251 LC ±0.25 P 252 LC ±0.25 P 253 LC ±0.25 P 254 LC ±0.25 P 255 LC ±0.25 P 256 LC ±0.25 P 257 LC ±0.25 P 258 LC ±0.25 P 259 LC ±0.25 P 260 LC ±0.25 P 261 LC ±0.25 P 262 LC ±0.25 P 263 LC ±0.25 P 264 LC ±0.25 P 265 LC ±0.25 P 266 LC ±0.25 P 267 LC ±0.25 P 268 LC ±0.25 P 269 LC ±0.25 P 270 LC ±0.25 P 271 LC ±0.25 P 272 LC ±0.25 P 273 LC 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