

REVISIONS				
P	LYR	DESCRIPTION	DATE	DWN
E		LOGO CHANGE	07APR2013	PP

1 USB MATERIALS:
SHELL: PHOSPHOR BRONZE
HOUSING: BLACK, THERMOPLASTIC, GLASS FILLED, UL 94V-0 RATED
CONTACT: PHOSPHOR BRONZE WITH SELECTIVE GOLD PLATING, 0.76um MIN IN CONTACT REGION
SPRING CLIP: COPPER ALLOY

RJ45 MATERIALS:
HOUSING: BLACK, THERMOPLASTIC FLAMMABILITY RATING UL 94V-0
SHIELD: BRASS, PREPLATED WITH 0.76um SEMI-BRIGHT NICKEL,
POST DIPPED WITH 2.54um MIN SAC SOLDER ON SOLDER TAILS.
CONTACTS: PHOSPHOR BRONZE,0.30 mm THK,1.27um MIN OVERALL NICKEL
UNDERPLATE WITH SELECT CERTAIN THICKNESS GOLD AT MATING INTERFACE
AND 2.54um MIN MATTE TIN AND/OR SAC SOLDER ON SOLDER TAILS.

LED: DIFFUSED EPOXY LENS,0.5 X 0.5 CARBON STEEL WIREFRAME
LEADS PREPLATED WITH 2.03um MIN SILVER OVER 1.02um MIN NICKEL
UNDERPLATE OVER 1.02um COPPER UNDERPLATE. POST-PLATED WITH
2.54um MIN MATTE TIN AND/OR SAC SOLDER DIP OR PURE TIN SOLDER DIP.

2 MAGNETICS
-APPLICATION : 10/100 BASE-T
-IMPEDANCE: 100 OHMS
-TURNS RATIO(CHIP:CABLE): TX=1:1, RX=1:1
-OPEN CIRCUIT INDUCTANCE(OCIL):350uH MIN @100kHz, 0.1 VRMS,
8mADC BIAS FROM 0°C TO 70°C, TX AND RX
-PERFORMANCE @ 25°C:
INSERTION LOSS (IL): 1.1 dB MAX FROM 0.5MHz TO 100MHz
RETURN LOSS (RL): 18dB MIN FROM 0.5MHz TO 30MHz
18-20LOG(f/30)dB MIN FROM 30.1 MHz TO 60MHz
12dB MIN FROM 60.1MHz TO 80MHz
CROSSTALK ATTENUATION:35 dB MIN FROM 0.5 MHz TO 40 MHz
33-20LOG(f/50) dB MIN FROM 40.1 MHz TO 100 MHz
COMMOM MODE REJECTION RATIO (CMRR): 30dB MIN FROM 0.5MHz TO 100MHz
-ISOLATION VOLTAGE:COMPLIES WITH IEEE802.3 2002,PARA 40.6.1.1,ITEM b.

3. OPERATING TEMPERATURE: 0°C TO + 70°C.

4 PART NUMBER, DATE CODE AND COUNTRY OF ORIGIN TO BE LOCATED IN APPROXIMATE AREA SHOWN.
DATE CODE: YYWWD "YY" IS YEAR, "WW" IS WORK WEEK, "D" IS DAY OF WEEK, WITH SUNDAY=1.

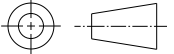


5 AGENCY APPROVAL LOGO, TRP CONNECTOR LOGO LOCATED IN APPROXIMATE AREA SHOWN.

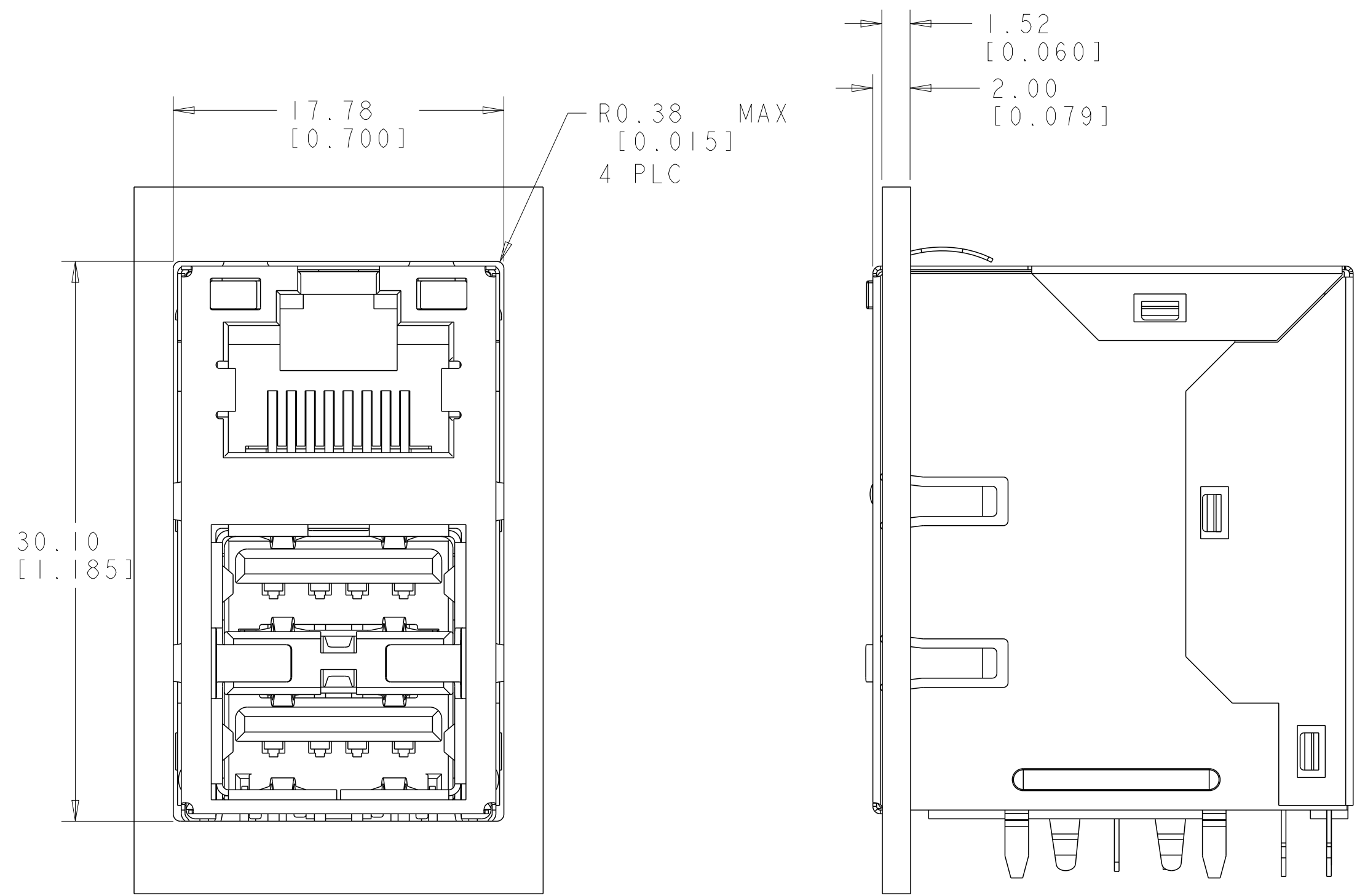
6 RJ45 CAVITY CONFORMS TO FCC RULES AND REGULATION PART 68 SUBPART F.

7 MATING INTERFACE COMPIES WITH USB (UNIVERSAL SERIAL BUS) SPECIFICATION REV 2.0, UTILIZING TYCO P/N 292323-1 WITH USB 2.0 CERTIFICATE TEST ID NO. 60000242.





8 LED IS DRIVEN WITH CONSTANT CURRENT APPROX 20 mA
DOMINANT WAVE LENGTH(λ D):GREEN 568 nm TYP, AT IF=20mA
FORWARD VOLTAGE(VF):GREEN 2.2V AT IF=20mA
DOMINANT WAVE LENGTH(λ D):YELLOW 588 nm TYP, AT IF=20mA
FORWARD VOLTAGE(VF):YELLOW 2.1V AT IF=20mA
DOMINANT WAVE LENGTH(λ D):ORANGE 605 nm TYP, AT IF=20mA
FORWARD VOLTAGE(VF):ORANGE 2.1V AT IF=20mA

9. THESE PARTS ARE COMPLIANT WITH WAVE SOLDERING PROCESS, PEAK SOLDERING TEMPERATURE IS 260°C MAX, 10 SECONDS MAX.

1.27um MIN		GREEN	GREEN	1000 pF, 2KV	2-1840026-1
0.76um MIN		GREEN	GREEN	1000 pF, 3KV	1-1840026-1
0.76um MIN		GREEN/ORANGE	YELLOW	1000 pF, 3KV	1840026-2
0.76um MIN		GREEN/ORANGE	YELLOW	1000 pF, 2KV	1840026-1
GOLD THICKNESS		LED2	LED1	DECOUPLING CAPACITOR	PART NUMBER
THIS DRAWING IS A CONTROLLED DOCUMENT.			DWN SKY ZHAO 15-Apr-13		
<div>DIMENSIONS:</div> <div>mm</div> <div></div>			CHK KEITH ZHU 15-Apr-13		
			APVD TEDDY XIONG 15-Apr-13		
			PRODUCT SPEC		
			108-104005		
TOLERANCES UNLESS OTHERWISE SPECIFIED:			NAME		
0 PLC ±.25			RJ45 OVER DUAL USB MAG45 TM		
1 PLC ±0.25			10/100 UR204P12 CIRCUIT,W/LED		
2 PLC ±0.25			APPLICATION SPEC		
3 PLC ±0.25			SIZE		
4 PLC ±0.25			CAGE CODE DRAWING NO		
ANGLES ±0.5			RESTRICTED TO		
FINISH			WEIGHT		
MATERIAL			A1 00779C=1840026		
					
CUSTOMER DRAWING			SCALE 6:1 SHEET 1 OF 3 REV E		



RECOMMENDED PCB FOOTPRINT
COMPONENT SIDE
SCALE 8:1

THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN SKY ZHAO 15-Apr-13 CHR REITH ZHU 15-Apr-13 APVD TEDDY XIANG 15-Apr-13		 TRP connector Dongguan China	
DIMENSIONS: mm 		TOLERANCES UNLESS OTHERWISE SPECIFIED: 0 PLC ±. 1 PLC ±0.25 2 PLC ±0.25 3 PLC ±0.25 4 PLC ±0.25 ANGLES ±0.5		PRODUCT SPEC 108-104005 APPLICATION SPEC	
MATERIAL 		FINISH 		WEIGHT -	
CUSTOMER DRAWING		NAME RJ45 OVER DUAL USB MAG45 TM 10/100 UR204P12 CIRCUIT, W/LED		SIZE A1	
		CAGE CODE 00779		DRAWING NO C=1840026	
		SCALE 6:1		SHEET 2 OF 3 REV F	

