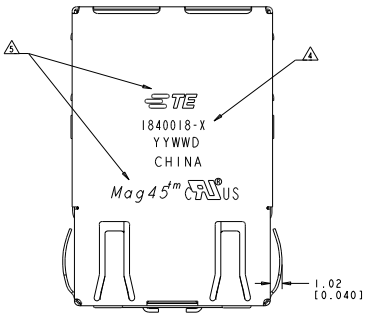
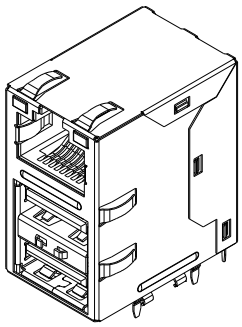
THIS DRAWING IS UNPUBLISHED. RELEASED FOR PUBLICATION 20
© COPYRIGHT 20 BY TE CONNECTIVITY CORPORATION, ALL RIGHTS RESERVED.

REVISIONS					
LOC	DIST				
-	-	P	LTR	DESCRIPTION	DATE	DWN	APVD
			E	ECO-11-014530	01JUL2011	PP	LJ





SCALE 4:1

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

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,0.30mm THK,1.27um MIN OVERALL NICKEL
UNDERPLATE WITH SELECT 1.27um MIN 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 : 10/100/1000 BASE-T
-IMPEDANCE: 100 OHMS
-TURNS RATIO(CHIP:CABLE): 1:1 ALL FOUR PAIRS
-OPEN CIRCUIT INDUCTANCE(OCL):350uH MIN @100kHz, 0.1 VRMS,
8mADC BIAS FROM 0°C TO 70°C, ALL FOUR PAIRS
-RISE TIME (10%-90%):2.5ns TYPICAL;
-ALL FOUR PAIRS BI-DIRECTIONAL
-PERFORMANCE @ 25°C:
INSERTION LOSS (IL): 1.1 dB MAX FROM 0.5MHz TO 100MHz
RETURN LOSS (RL): 18dB MIN FROM 0.5MHz TO 40MHz
12-20LOG(f/80)dB MIN FROM 40.1 MHz TO 100MHz
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
COMMON 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, TE CONNECTIVITY LOGO AND PRODUCT LOGO LOCATED IN APPROXIMATE AREA SHOWN.

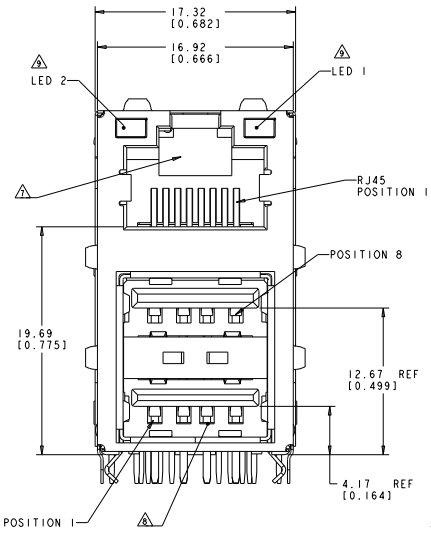
⚠6 RECOMMENDED PCB THICKNESS 1.5mm (.062") THICK.DATUM LOCATION AND DIMENSION TO BE ESTABLISTED BY CUSTOMER.

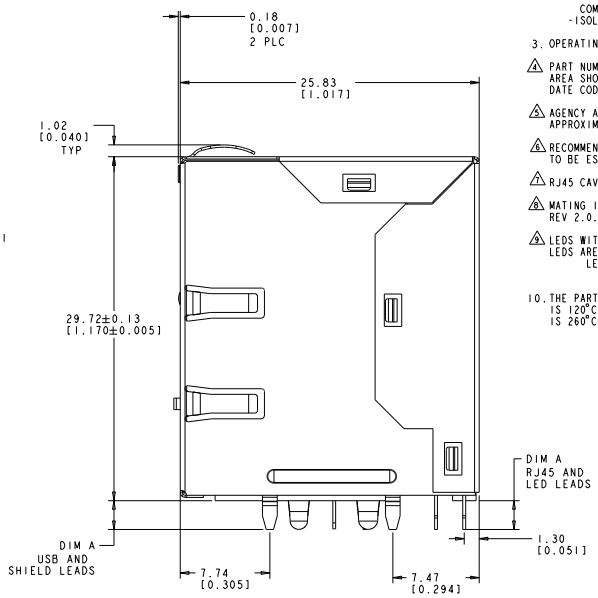
⚠7 RJ45 CAVITY CONFORMS TO FCC RULES AND REGULATION PART 68 SUBPART F.

⚠8 MATING INTERFACE COMPLIES WITH USB (UNIVERSAL SERIAL BUS) SPECIFICATION REV 2.0.

⚠9 LEDS WITHOUT BUILT-IN RESISTOR
LEDS ARE DRIVEN WITH CONSTANT CURRENT AT APPROX 20 mA
LED COLOR: DOMINANT WAVELENGTH (λD): GREEN 568 nm TYP @ IF=20 mA
FORWARD VOLTAGE (VF): GREEN 2.2V TYP @ IF=20 mA

10. THE PART IS RECOMMENDED FOR WAVE SOLDERING PROCESS, PREHEAT TEMPERATURE IS 120°C TO 160°C, 120 SECONDS TO 180 SECONDS, PEAK WAVE SOLDERING TEMPERATURE IS 260°C MAX, 10 SECONDS MAX.





2.79 mm	2-1840018-1
2.50 mm	1840018-1
DIM A	PART NUMBER

THIS DRAWING IS A CONTROLLED DOCUMENT.
DIMENSIONS: MM
TOLERANCES UNLESS OTHERWISE SPECIFIED:
ANGLES ±0.5
MATERIAL : ⚠1
FINISH : ⚠1

DWN	29OCT2008
CHK	YIKIN LEE 29OCT2008
APVD	QUENTIN LIU 29OCT2008
MFG	TEDDY XIONG 29OCT2008
PRODUCT SPEC	108-184005
APPLICATION SPEC	-
WEIGHT	-

TE Connectivity

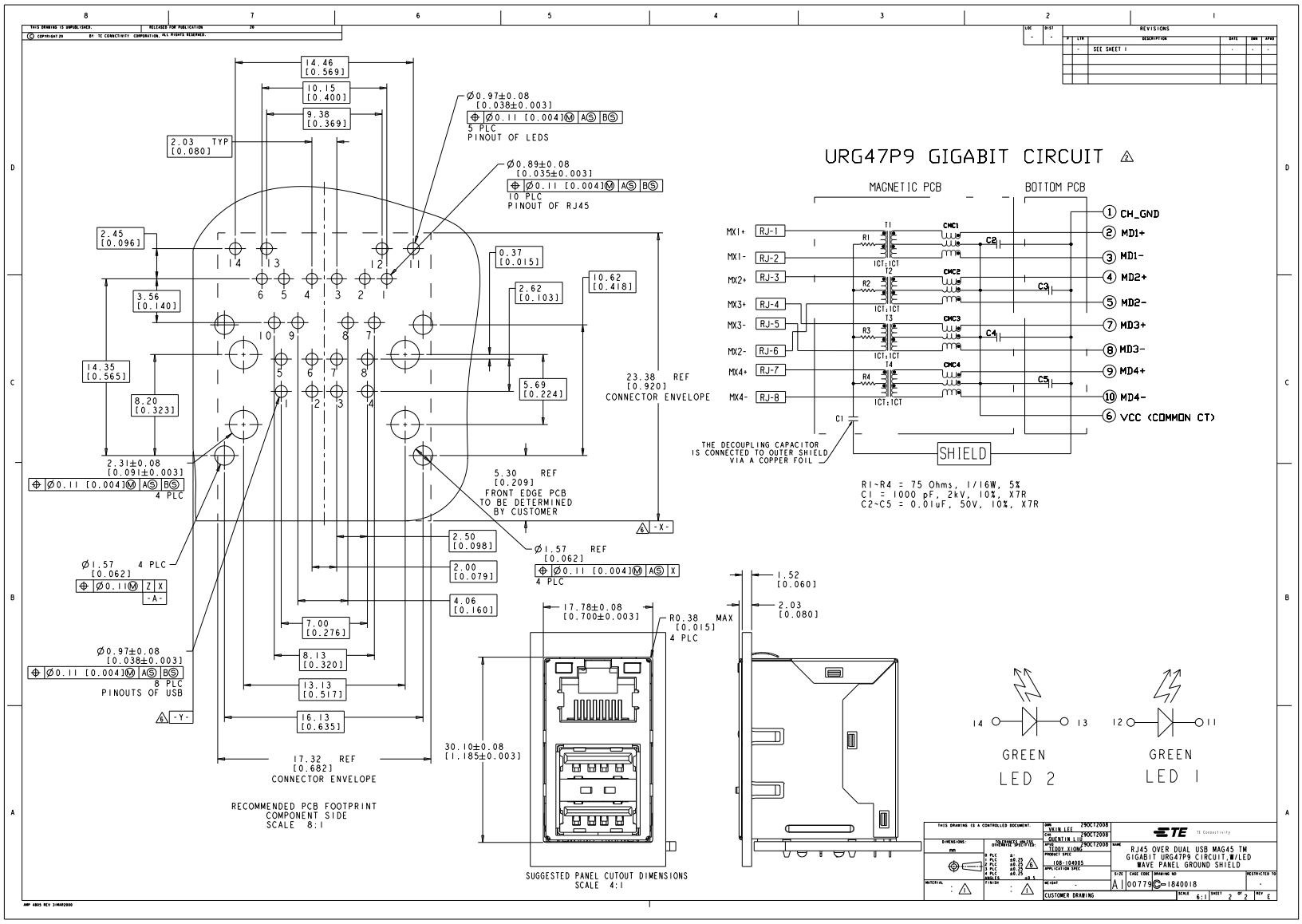
RJ45 OVER DUAL USB MAG45 TM GIGABIT URG47P9 CIRCUIT,W/LED WAVE PANEL GROUND SHIELD

SIZE	CAGE CODE	DRAWING NO	RESTRICTED TO
A	00779	C-1840018	-

CUSTOMER DRAWING
SCALE 6:1 SHEET 1 OF 2 REV E

AMP 4805 REV 30MAR2000

Downloaded from Elcodis.com electronic components distributor



Downloaded from Elcodis.com electronic components distributor