



RECOMMEND PCB LAYOUT

X8	REVISE DRAWING & ORDER INFORMATION	Daniel	06/09/10'
X7	Change the Housing material "LCP"	Vegas	06/26/09'
X6	Revise Drawing and PCB Layout	Vegas	04/21/09'
X5	Correct Part Number	Vegas	04/09/09'
X4	Part Number Change	SWL	05/05/08'
X3	Revise Drawing	Vegas	01/09/08'
X02	ADD PLATING CHOICE	Vegas	01/07/08'
X01	ISSUED	Daniel	11/16/07'
REV.	ECN NO.	NAME	DATE

TOLERANCE	
LINEAR	ANGLES
X.±	X°.± 3'
.X±0.38	.X*±
.XX±0.25	.XX*±
.XXX±0.10	.XXX*±



APPD:	MAT'L:
CHKD:	FINISH:
DRWN: Kevin	Q'TY:

TITLE: eSATA SIGNAL PLUG SMT RA TYPE CONNECTOR			
PART NO. ESAR-1607-BK*3T01			
DWG NO. GTi07-25056			
	UNITS	SCALE	SHEET
	MM	NONE	10F2
			REV
			X8

Notes:

1. Electrical:

- a. Voltage Rating: 500V AC/DC(r.m.s)
- b. Current Rating: 1.5Amperes.
- c. Insulation Resistance: 1000M ohms min.
- d. Dielectric Withstand Voltage: 500V AC/1 min.
- e. Contact Resistance: 30 m ohms max initial.

2. Mechanical:

- a. Material:
 - Contacts: Brass.
 - Housing/Flammability Rating: LCP
 - Shell: Brass.
- b. Plating:
 - Contacts: Gold plated Optional.
 - 100u" matte tin Min. Plated at solder side, 30u" nickel Min. underplated overall.
 - Shell: 50u" nickel Min.
- c. Durability: 2,500 Cycles.
- d. Mating force: 40N Max.
Unmating force: 10N Min.
- e. Coplanarity of SMT Leads: Not Applicable.
- f. Solderability: More than 95% of solderable area shall be covered with solder after 5~10 seconds flux(No clean flux)deep.
- g. Soldering Profile: 260°C±5°C for 5 seconds without remarkable deterioration.

3. Environmental:

- a. Operating/Storage Temperature: -40°C to +85°C.
- b. High Temperature Life: A temperature of 60±5°C for 96hours;
- c. Cold Temperature Life: A temperature of -40±5°C for 96hours;
- d. Salt Spray test shall be tested per ASTM 117 for 48 hours.
- e. Temperature Cycling: 10 cycles of -55±5°C to 85±5°C
- f. Steady State Humidity: 90%~95% humidity on 40±3°C for 96hours.
- g. Thermal Shock: 10 cycles of -55±5°C to 85±5°C
- h. Vibration: No discontinuities of 1us of longer duration when mated eSATA conn. are subjected to 5.35Gs RMS. 15min. in each of three mutually perpendicular planes.
- i. Resistance to Soldering Heat: Can resistance 260°C±5°C for 60±3 seconds
- j. After enviromental test, connector contact resistance should not increase to 45m ohms Max. and meet IR and DWV as initial.

4. Compliance:

- a. Standard: compliance to SATA 2.6
- b. RoHS Compliant.

ORDER INFORMATION:

ESAR-16 07 - B K * 3 T 01

① ② ③④⑤⑥

- ① CONNECTOR
ESAR-16: eSATA 7PIN, MALE SMT TYPE
- ② POSITION:
07: 07 POSITIONS
- ③ INSULATOR MATERIAL
B: LCP
- ④ INSULATOR COLOR
K: BLACK
- ⑤ CONTACT PLATING
1: GOLD FLASH
5: 15u" GOLD
6: 30u" GOLD
- ⑥ SHIELD PLATING
3: NICKEL PLATED

SHEET	REV
2 OF 2	SEE SHEET 1