

REV.	ECN. NO.	DESCRIPTION	ENG	DATE
X1		ISSUED	DANIEL	08/06/12'
X2		MODIFY DWG	TERRY	08/25/12'
X3		ADD PIN P1 AND S1	AXL	08/28/12'
X4		ADD GOLD PLATING OPTION	TERRY	09/06/12'

NOTES:

1. Material:

Housing: UL 94V-0 rated;  
 Contact: Phosphor Bronze  
 Plating: Gold Plating over Nickel on contact area.  
 Tin plating on Solder Tail.  
 Board Lock: Copper alloy  
 Plating: Tin plating overall  
 SHIELD: Steel  
 Plating: Ni plating overall

2. Mechanical

Insertion Force: 20N max.  
 Withdrawal Force: 4N min.  
 Durability: 500 cycles

3. Electrical Specification

Operation Voltage: 100 VAC max.  
 Current Rating: 1.5 Ampere per contact.  
 Contact Resistance: 50 REF. Milliohms min.  
 Insulation Resistance: 1000 Megohms min.  
 Dielectric Withstanding Voltage: 500 VAC.

4. Environmental

Operating Temperature: -40°C to +85°C

5. RoHS 6/6 Compliant.

6. Route all differential data traces for minimum skew, avoid changing layers with Vias (if possible).

7. Add pour clearance of approximately 1/2 board thickness to differential data connections on SATA footprint (7 pin side)

PART. NUMBER

SATR-45 22 - A K X 3 T 01

① ② ③④⑤⑥⑦

① CONNECTOR:

SATR-45: SATA, 7+15PIN, WITH SHIELD

② POSITION:

22: 22 POSITIONS

③ INSULATOR MATERIAL:

A: PBT

④ INSULATOR COLOR:

K: BLACK

⑤ CONTACT PLATING:

1: GOLD FLASH

X4

3: 5u" GOLD

5: 15u" GOLD

⑥ SHIELD PLATING

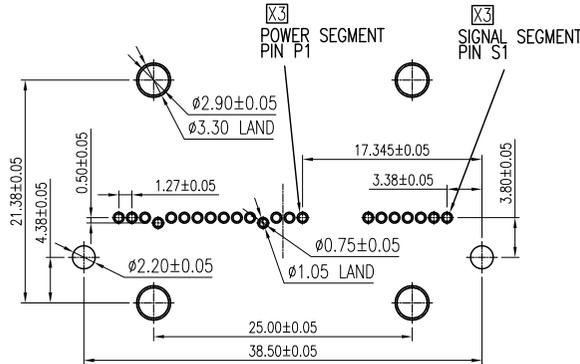
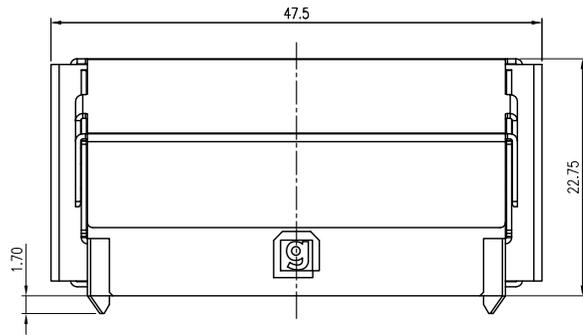
3: NICKEL PLATING

⑦ PACKING

T: TRAY

GENERAL TOLERANCE X.± .X±0.40 .XX±0.30 .XXX±0.20	ANGLE TOLERANCE X°±2° .X°±1° .XX°± .XXX°±	DRAWN TERRY	DATE 08/25/12'	 TITLE. SATA 7+15 PIN WITH SHIELD CONNECTOR
MATL SEE BOM	FINISH SEE NOTES	CHECKED	DATE	
SCALE N/A	UNIT mm	APPROVED	DATE	DRAWING NO. GT17-250130
SHEET 1 OF 1				SIZE A4 REV. X4

X2



RECOMMEND PC BOARD MOUNTING DIMENSIONS t=1.60mm

\*SEE NOTES 6 AND 7 FOR ADDITIONAL DETAIL\*

X3 POWER PIN P1  
 X3 SIGNAL PIN S1

