EVB-LAN8187

LAN8187(I) MII Customer Evaluation Board

+3.3V I/O VDDIO Operation

Design Details

Schematic Revision B4 Public

Board:

PCB-7058AZ-B4

Chip:

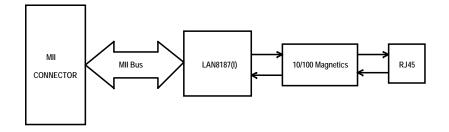
LAN8187(I)

Board Form Factor:

Assembly:

Circuit Diagrams utilizing SMSC Products Are Included As A Means Of Illustrating Typical Semiconductor Applications: Consequently Complete Information Sufficient For Construction Purposes Is Not Necessarily Given. The Information Has Been Carefully Checked And Is Believed To Be Entirely Reliable. However, No Responsibility Is Assumed For Inaccuracies. Furthermore, Such Information Does Not Convey To The Purchaser Of The Semiconductor Devices Described Any License Under The Patent Rights Of SMSC Or Others. SMSC Reserves The Right To Make Changes At Any Time In Order To Improve Design And Supply The Best Product Possible.

EVB BLOCK DIAGRAM



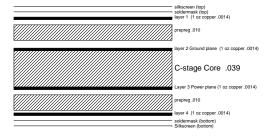
ITEM	Page
Title Page	1
Stackup	2
LAN8700(I) & Magnetics	3
Power & Misc	4

Revisions

thange center to of magnetic to 75 ohms: corrected name on pin 1 to RMII:
moved in NT/TXER/TXD on symbot, added pullip to nINT, moved caps from page 4 to page 3. removed 1500m DN PR 83.6 R8-i irreased the 1000pF
R)45 capacitors to 2kV; added 10ohm series resistor to XTAL



stackup



NOTES:

1. BOARD FABRICATION AND QUALITY ACCEPTANCE PER IPC-8012 CLASS
2. BOARD MUST MEET OR EXCEED QUALIFICATION TESTING AND
QUALITY CONFORMACE TESTING INSPECTION SPECIFIED WITHIN.
2. MATERIAL HAND GRADE STANDARD FRA LAMBANTED SHEET, HET 10.2
COPPER CLAD, TYPE GFGE WOVEN GLASS BASE, FLAME RESISTANCE
OF A COPPER CLAD, TYPE GFGE WOVEN GLASS BASE, FLAME RESISTANCE
OF A COPPER CLAD, TYPE GFGE WOVEN GLASS BASE, FLAME RESISTANCE
OF A COPPER CLAD, TYPE GFGE WOVEN GLASS BASE, FLAME RESISTANCE
OF A COPPER CLAD, TYPE GFGE WOVEN GLASS BASE, FLAME RESISTANCE
OF A COPPER CLAD, TYPE GFGE CLADE CROWN AND COPPER CLAD
ARRING PREFERRALY COPPER (SMER) WAS A COPPER SISTAND AND COPPER CLADE
OF A COPPER CLADE CLADE AND COPPER SISTAND AND COPPER CLADE CLADE
OF PUNCTURING OF TENTED HOLES IS PERMISSIBLE. SOLDERMASK MISREGISTRATION
SHALL NOT EXCEED DOI NICH, SOLDERMASK OVERLAP PERMITTED

1. SHAME SOLDER MASK OVER BASE COPPER (SMORG), HOT AIR LEVEL DEPOSIT
OF A COPPER PLANE CLADE CAPPER AND HOLE
OF A COPPER CHALLE CAPPER AND CAPPER AND HOLE
SCHEDULE HOLE COATON MAY VARY WITHIN ON IN. MAX
ABOUT TRUE POSITION.

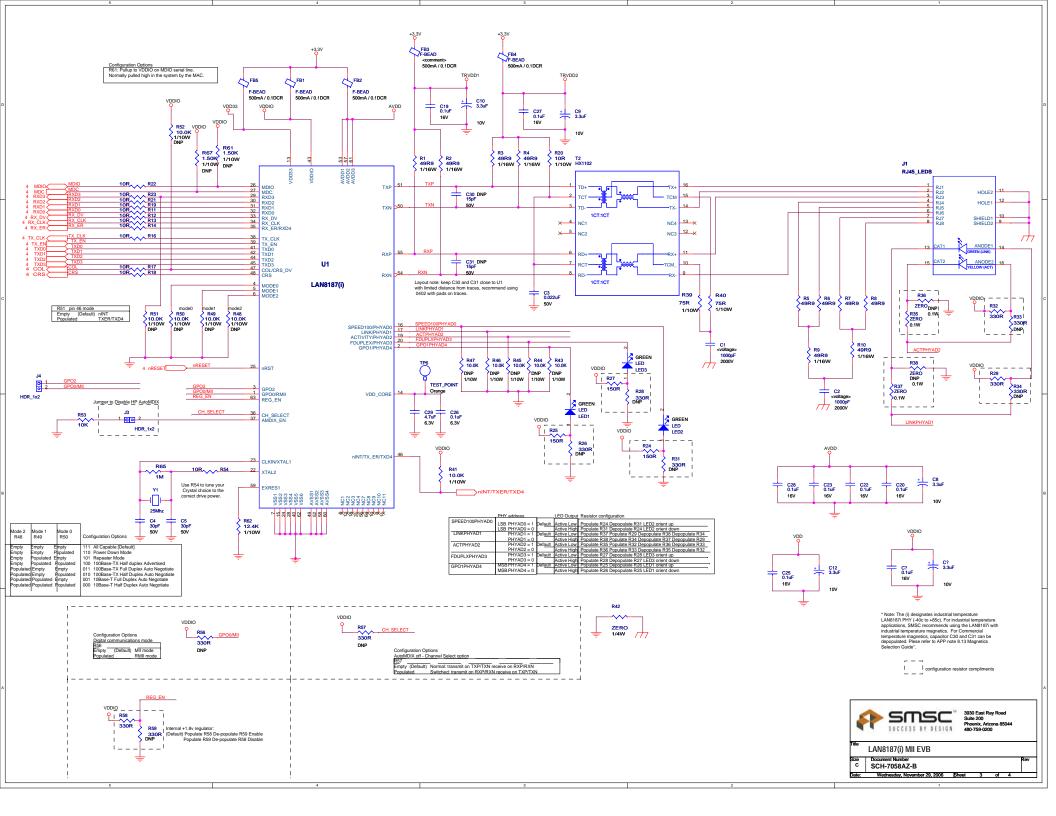
3. ALL EXPOSED SURFACE LANGY VARY WITHIN ON IN. MAX
ABOUT TRUE POSITION.

3. ALL EXPOSED SURFACE LANGY VARY WITHIN COPPER CHATED.

3. ALL EXPOSED SURFACE LANGY SAND LAYERS.

3. OI TO MINIMUM - EXTERNAL LAY





+5V MII to +3.3V Regulator

