SMA to RJ45 Connector Adapter Board

USER MANUAL

Part Number: SMA2RJ45EVK NOPB

For the latest documents concerning these products and evaluation kit, visit lvds.national.com.
Schematics and gerber files are also available at lvds.national.com.

April 2008
Rev. 1.0

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Overview

The SMA2RJ45EVK is an SMA connector to RJ45 connector adapter boards developed to complement National Semiconductor's evaluation boards for which evaluation with CAT5e cable assemblies may be desirable (e.g. DriveCable02EVK, LVDS-18B-EVK, DS25BR100EVK, etc.).



Figure 1. Photo of the SMA to RJ45 Adapter Board

Board Description

Figure 2 shows the adapter board drawing with the silkscreen annotations. The 1.75 by 1.0 inch, four-layer PCB is designed to bring RJ45 connector signal pins to SMA connectors. There is only one SMA pair installed (J2 and J3) on the board. J2 connects to the pin 4 pf the RJ45 connector (J1); J3 connects to the pin 5 of J1. The end user may access the remaining RJ45 pins using the copper pads located on the bottom of the board.

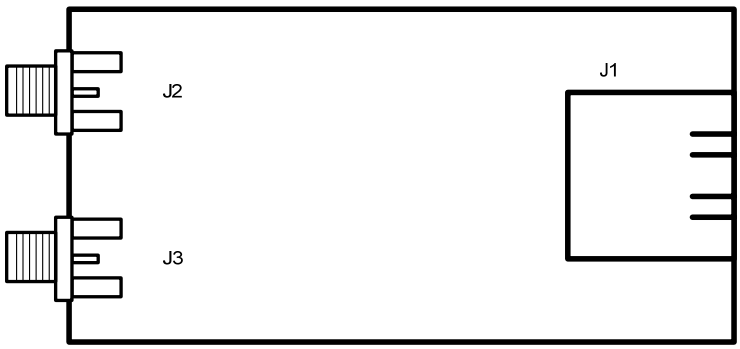


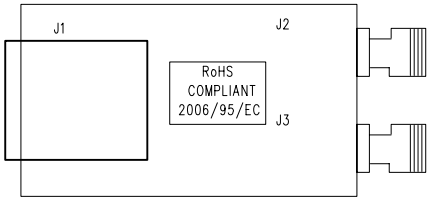
Figure 2. SMA2RJ45EVK Drawing

ENERCON - BILL OF MATERIALS	TITLE:	NATIONAL SEMICONDUCTOR PCBA, SMA2RJ45EVK SMA2RJ45	PL Number: Z3015-02	Rev: 2	Rev By: BJ	Rev Date: 03/31/08	PL Status: Released
Main Product: PCBA, JTAG SCANCP02 EVAL, ROHS			Responsible Eng/Mgr: Ed Ballou			Creator: Arlene Fox	Creation Date: 10/02/06

Item	Part Type	Part Number/Value	Mfg	NoSub	Description	Qty	SMT	Ref Des	Notes	Rev
1	PCB	P-05402R0	ENERCON		CP02 EVAL DAUGHTER, ROHS: 1.75x1.00x. 062in, 4 laye	1			Bd: (44.45x 25.40mm)	1
2										
3	CONN	142-0711-821	JOH		SMA, 50 Ohm, End Launch, Pb-Free	2		J2,3		0
4	CONN	85505-0013	MOLEX		Telco, 8p, R/A, Shielded, CAT5, Pb-Free	1		J1		0
5										
6	REF	C-05403R0	ENERCON		FABRICATION DWG, CP02 EVAL DAUGHTER BOARD, ROHS					0
7										

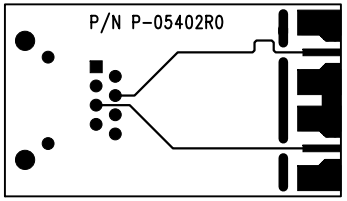
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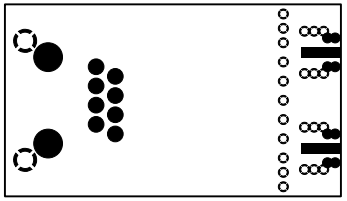
SILKSCREEN TOP

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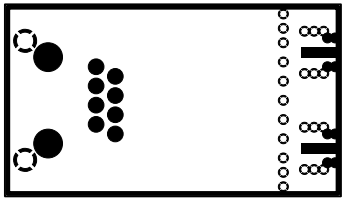
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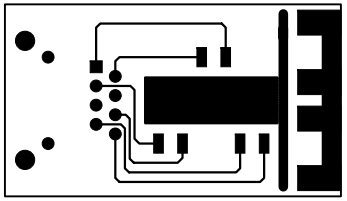
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LAYER 2 GND PLANE

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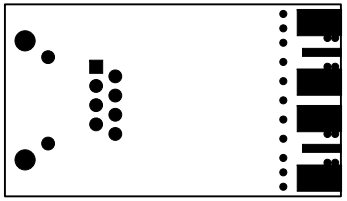


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LAYER 3 GND PLANE

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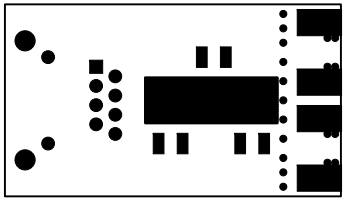


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