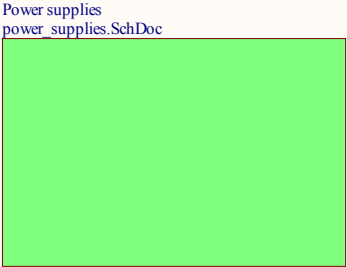
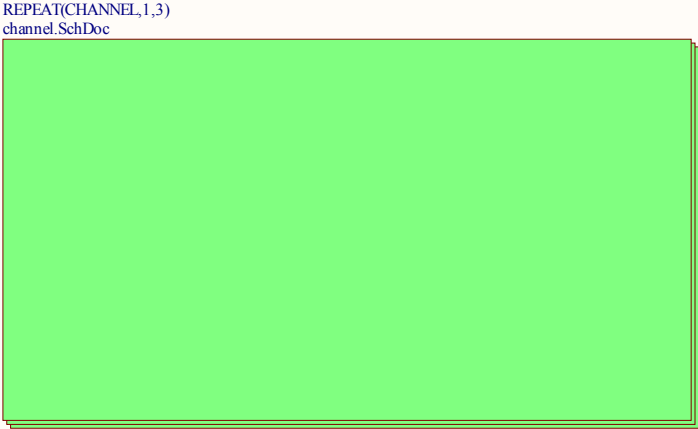


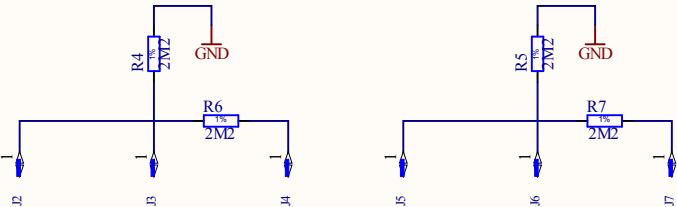
▲ NIM levels:
Logic 1 = -14mA to -18mA into 50ohms
Logic 0 = -1mA to +1mA into 50ohms



GND test points

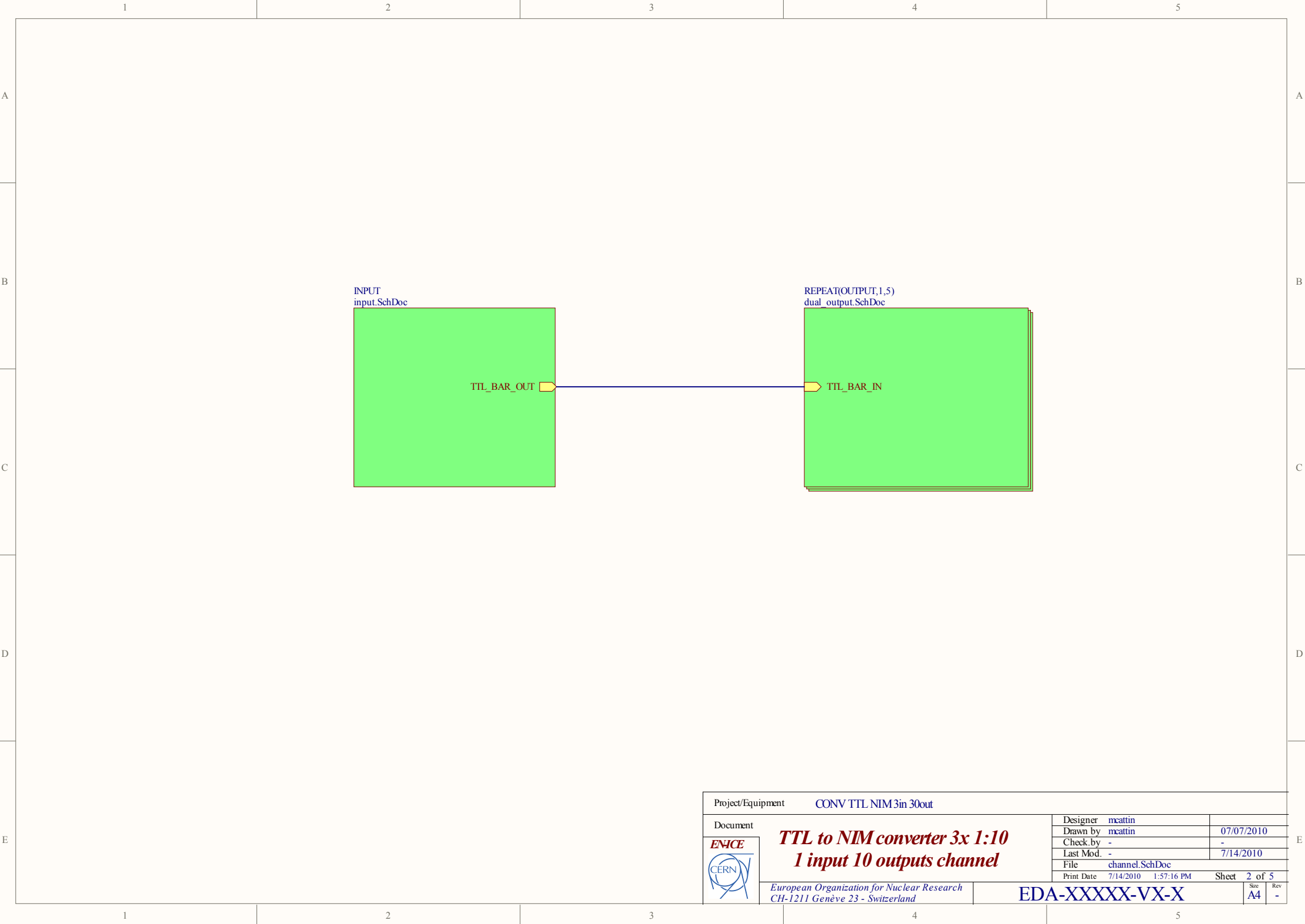



ESD discharge strips (top and bottom of the card)



Project/Equipment		CONV TTL NIM3in 30out		
Document		<div>ENICE</div> <div>CERN</div> <div>TTL to NIM converter 3x 1:10 Top level</div> <div>European Organization for Nuclear Research CH-1211 Genève 23 - Switzerland</div>		
Designer				mcattin
Drawn by				mcattin
Check by				-
Last Mod.				7/14/2010
File		top.SchDoc		
Print Date		7/14/2010	1:57:16 PM	Sheet 1 of 5
Size		A4		
Rev		-		

EDA-XXXXX-VX-X



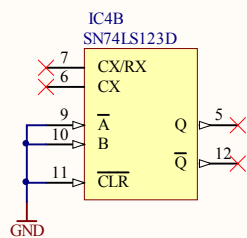
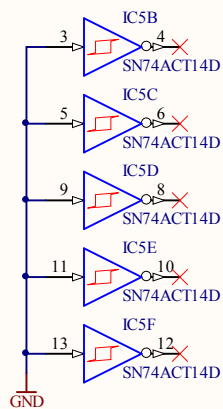
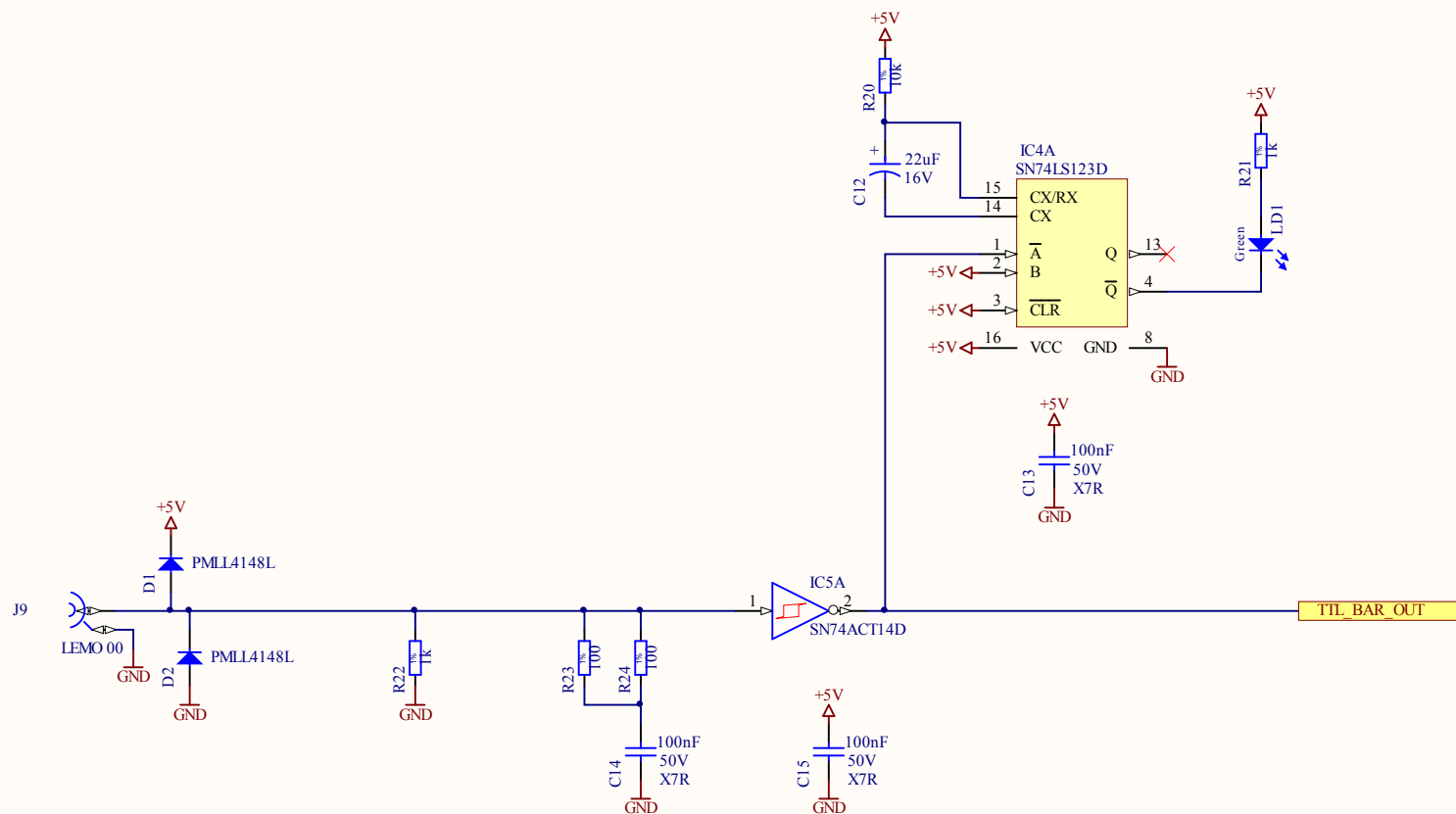
Project/Equipment		CONV TTL NIM3in 30out			
Document					
	Designer		mcattin	07/07/2010	
	Drawn by		mcattin	-	
	Check by		-	7/14/2010	
	Last Mod.		-	-	
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Print Date		7/14/2010	1:57:16 PM	Sheet	2 of 5
					Size
					Rev
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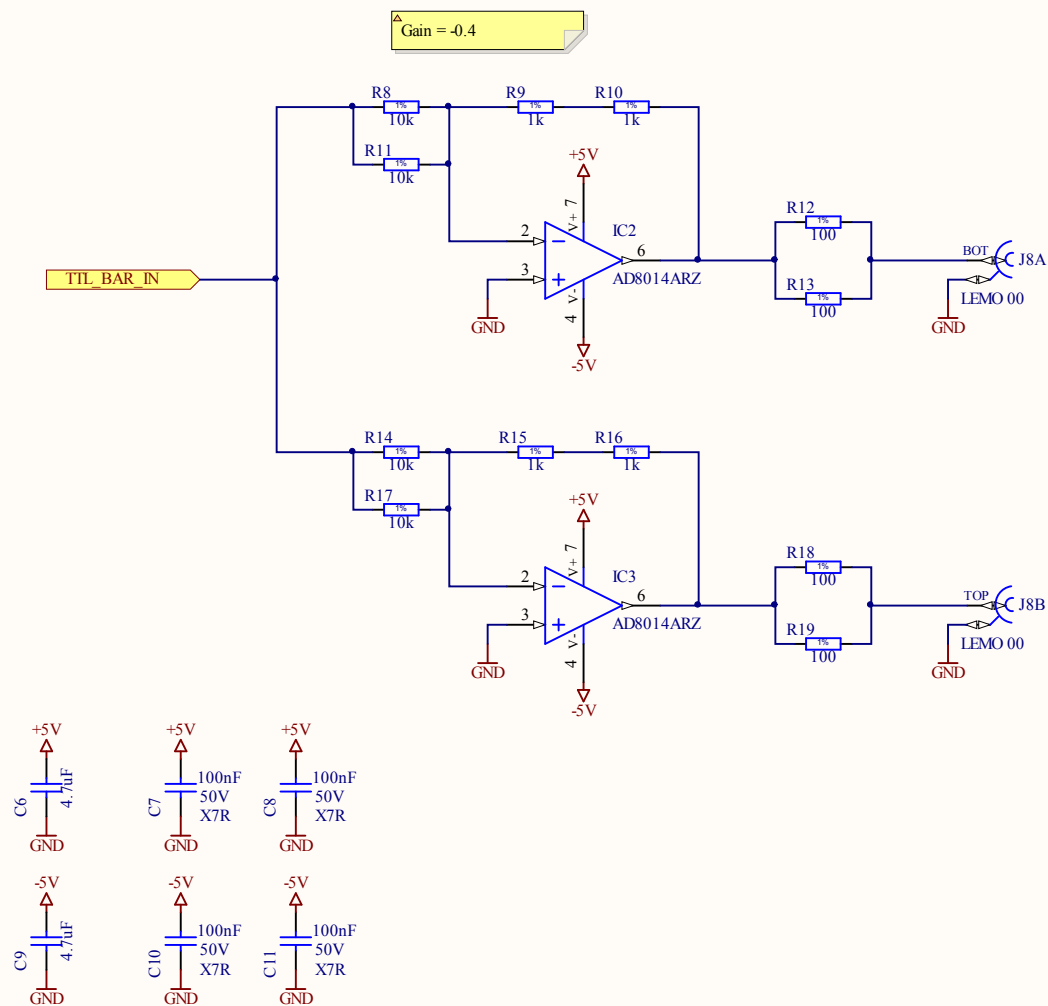
TTL to NIM converter 3x 1:10
1 input 10 outputs channel

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EDA-XXXXX-VX-X

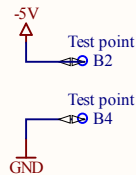
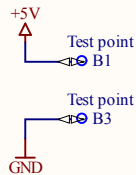
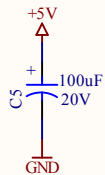
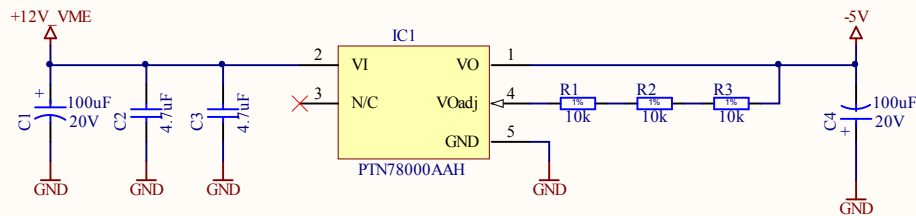


Project/Equipment		CONV TTL NIM3in 30out	
Document		<div>Designer mcatin</div> <div>Drawn by mcatin</div> <div>Check by -</div> <div>Last Mod. -</div> <div>File input.SchDoc</div> <div>Print Date 7/14/2010 1:57:16 PM</div> <div>Sheet 3 of 5</div>	
<div>ENICE</div>			
<div>CERN</div>			
European Organization for Nuclear Research			
CH-1211 Genève 23 - Switzerland			
<div>TTL to NIM converter 3x 1:10</div> <div>Input and indicator LED</div>		EDA-XXXXX-VX-X	
		Size	Rev
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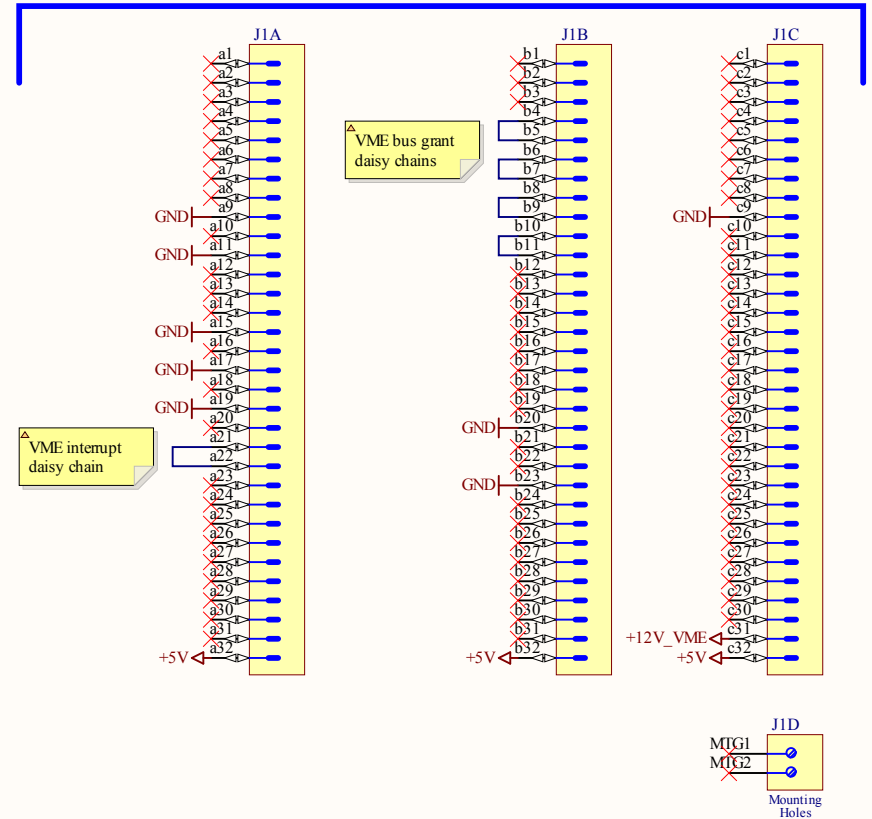


Project/Equipment		CONV TTL NIM3in 30out	
Document		TTL to NIM converter 3x 1:10 Dual output buffer block	
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File		dual_output.SchDoc	
Print Date		7/14/2010 1:57:17 PM	Sheet 4 of 5
European Organization for Nuclear Research CH-1211 Genève 23 - Switzerland		EDA-XXXXX-VX-X	
		Size	Rev
		A4	-

Estimated power consumption:
+5V ~> 75mA / channel
-5V ~> 250mA / channel
Channel = 1 input and 10 outputs



VME P1



Project/Equipment		CONV TTL NIM3in 30out	
Document		Designer mcatin	
ENICE		Drawn by mcatin	
CERN		Check by -	
		Last Mod. -	
		File power_supplies.SchDoc	
		Print Date 7/14/2010 1:57:17 PM	
		Sheet 5 of 5	
		Size A4	
		Rev -	

TTL to NIM converter 3x 1:10
Power supplies, VME connector

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CH-1211 Genève 23 - Switzerland

EDA-XXXXX-VX-X

Component	Description	Part Number	Footprint	Library	Quantity
Test pads	Single Thermal Pad	B1, C1, B3, B4	20x500x11, 20x50x11	CATERPILLAR_20-500x11, CATERPILLAR_20-50x11	4
100uF	Polarized capacitor	C1, C2, C5	24P800V50, 100X1150	24P800V50, 100X1150	3
		C1, C2, C5	24P800V50, 100X1150	24P800V50, 100X1150	3
		C1, C2, C5	24P800V50, 100X1150	24P800V50, 100X1150	3
		C1, C2, C5	24P800V50, 100X1150	24P800V50, 100X1150	3
		C1, C2, C5	24P800V50, 100X1150	24P800V50, 100X1150	3
		C1, C2, C5	24P800V50, 100X1150	24P800V50, 100X1150	3
		C1, C2, C5	24P800V50, 100X1150	24P800V50, 100X1150	3
		C1, C2, C5	24P800V50, 100X1150	24P800V50, 100X1150	3
		C1, C2, C5	24P800V50, 100X1150	24P800V50, 100X1150	3
		C1, C2, C5	24P800V50, 100X1150	24P800V50, 100X1150	3
4.7uF	Non-polarized capacitor	C3, C4, C6, C7, C8, C9, C10, C11, C12, C13, C14, C15, C16, C17, C18, C19, C20, C21, C22, C23, C24, C25, C26, C27, C28, C29, C30, C31, C32, C33, C34, C35, C36, C37, C38, C39, C40, C41, C42, C43, C44, C45, C46, C47, C48, C49, C50, C51, C52, C53, C54, C55, C56, C57, C58, C59, C60, C61, C62, C63, C64, C65, C66, C67, C68, C69, C70, C71, C72, C73, C74, C75, C76, C77, C78, C79, C80, C81, C82, C83, C84, C85, C86, C87, C88, C89, C90, C91, C92, C93, C94, C95, C96, C97, C98, C99, C100, C101, C102, C103, C104, C105, C106, C107, C108, C109, C110, C111, C112, C113, C114, C115, C116, C117, C118, C119, C120, C121, C122, C123, C124, C125, C126, C127, C128, C129, C130, C131, C132, C133, C134, C135, C136, C137, C138, C139, C140, C141, C142, C143, C144, C145, C146, C147, C148, C149, C150, C151, C152, C153, C154, C155, C156, C157, C158, C159, C160, C161, C162, C163, C164, C165, C166, C167, C168, C169, C170, C171, C172, C173, C174, C175, C176, C177, C178, C179, C180, C181, 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