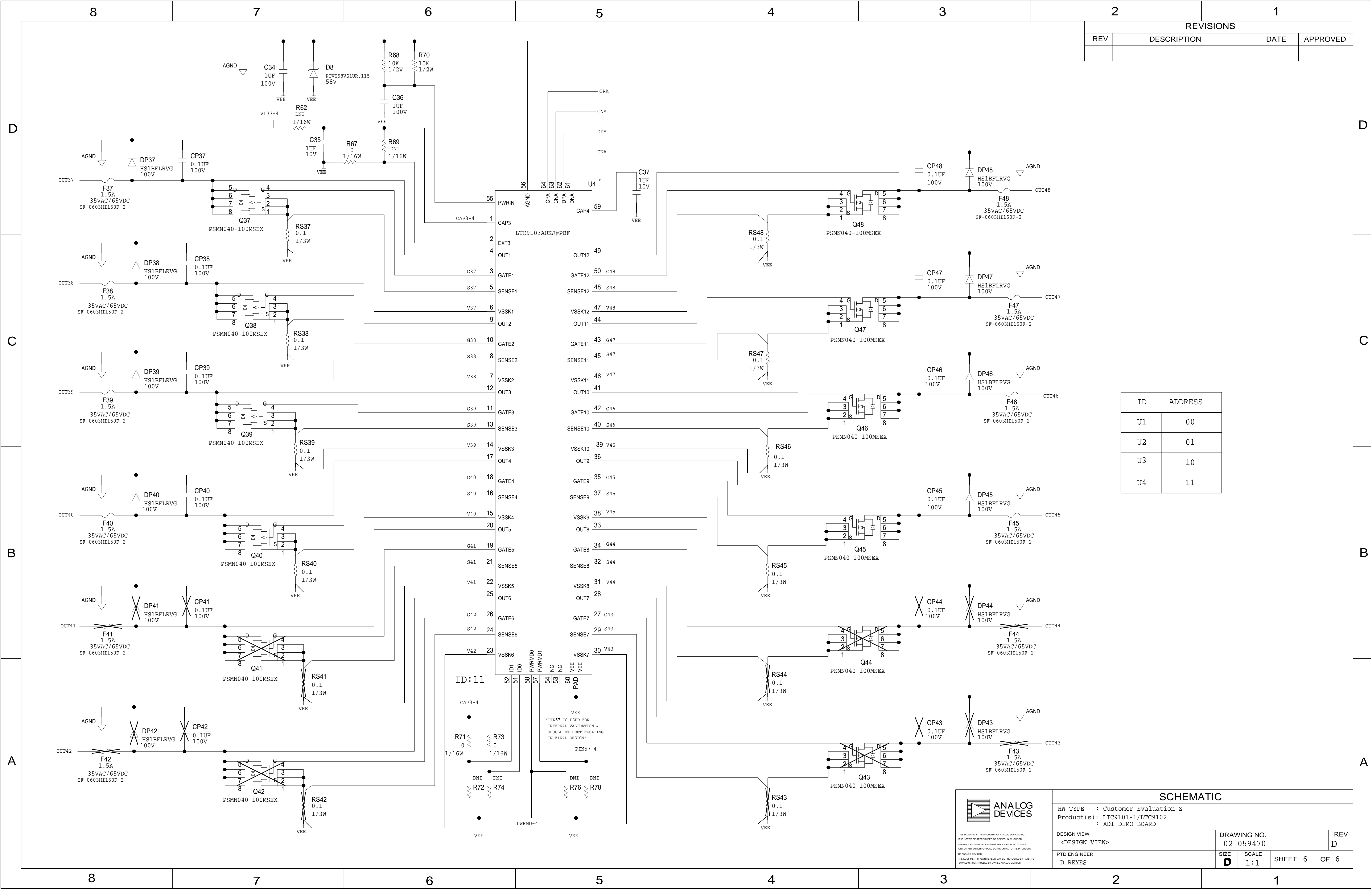


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U2	01
U3	10
U4	11

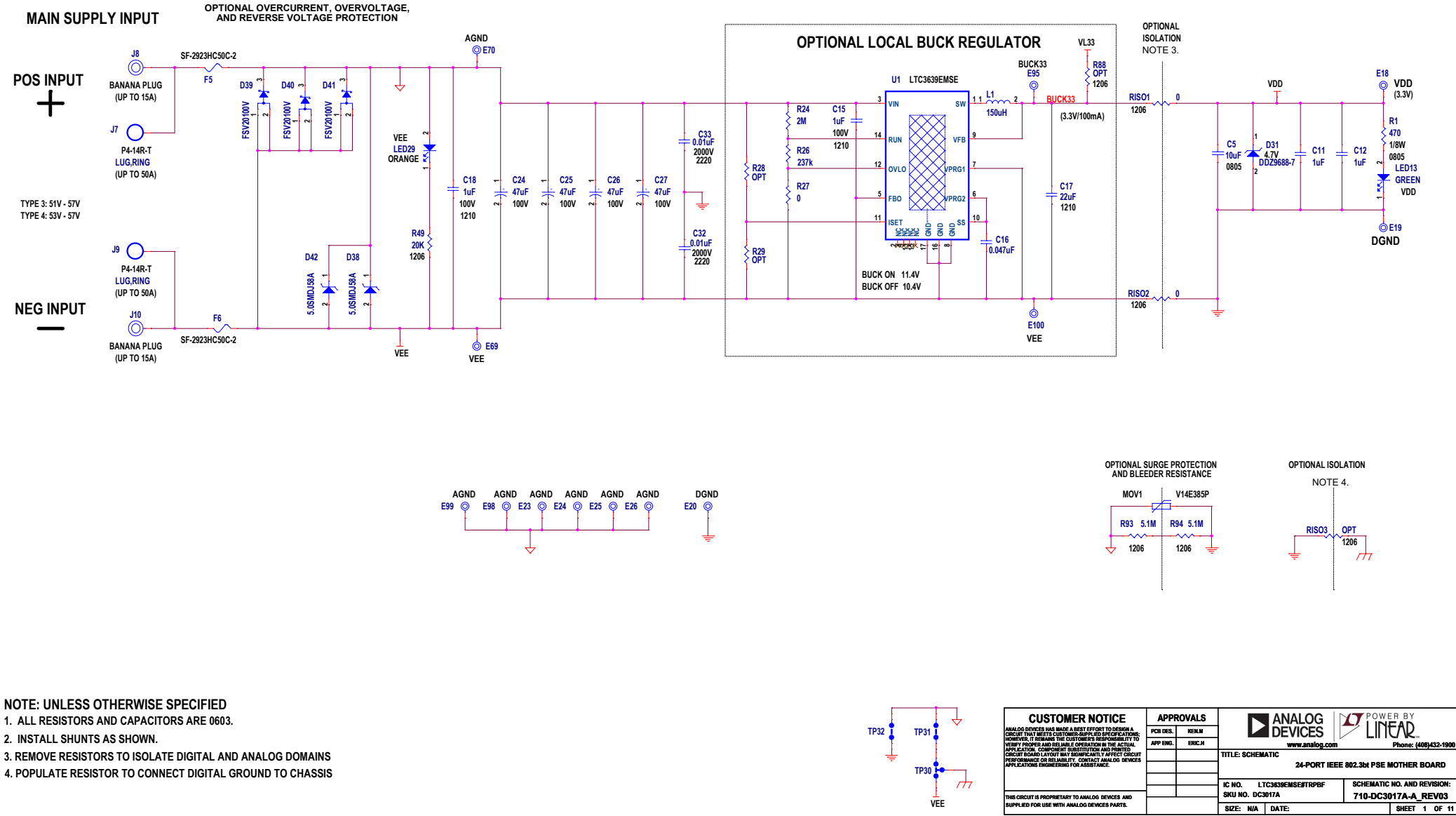


SCHEMATIC			
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Product(s) : LTC9101-1/LTC9102			
: ADI DEMO BOARD			
DESIGN VIEW	DRAWING NO.		REV
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PTD ENGINEER	SIZE	SCALE	SHEET 5 OF 6
D.REYES	D	1:1	



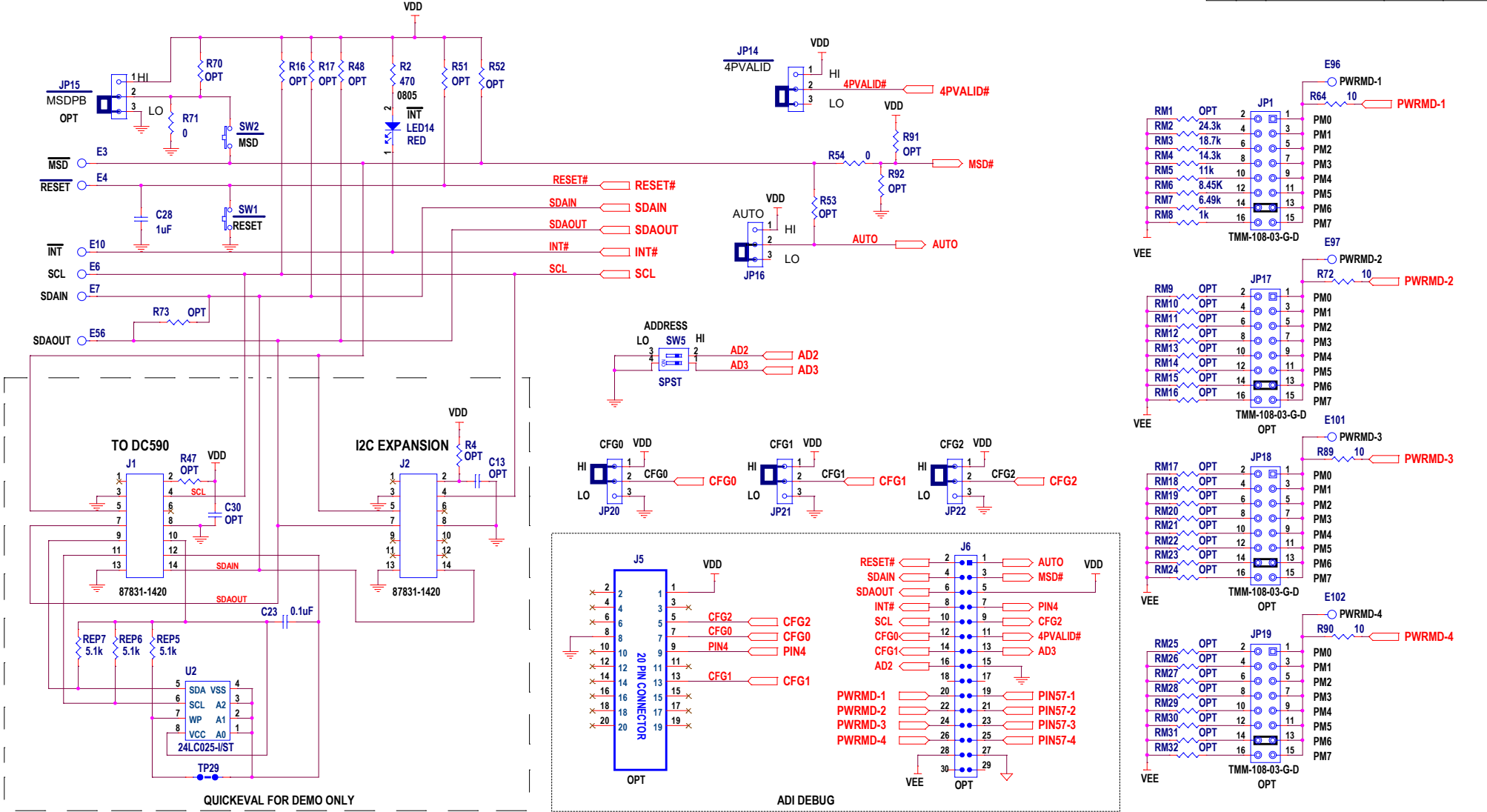
POWER SUPPLY

REVISION HISTORY				
ECO	REV	DESCRIPTION	APPROVED	DATE
	3			





CONFIGURATIONS

REVISION HISTORY				
ECO	REV	DESCRIPTION	APPROVED	DATE
	3			

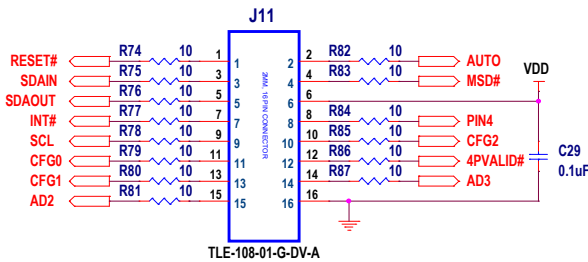


NOTE: UNLESS OTHERWISE SPECIFIED
1. ALL RESISTORS AND CAPACITORS ARE 0603.
2. INSTALL SHUNTS AS SHOWN.

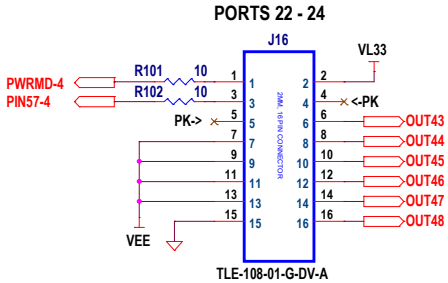
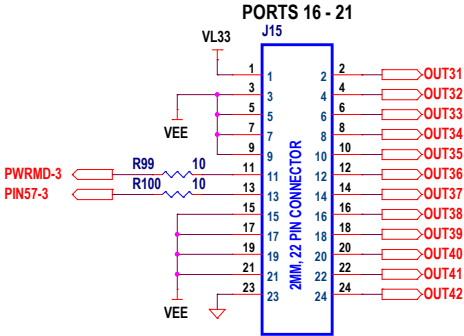
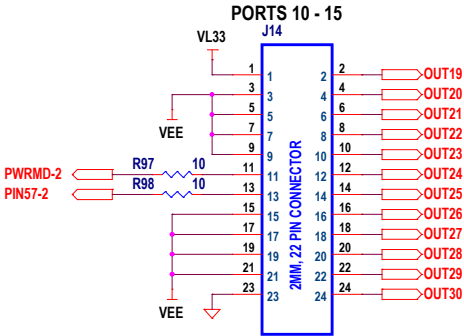
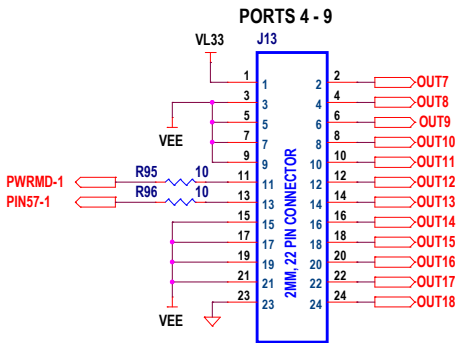
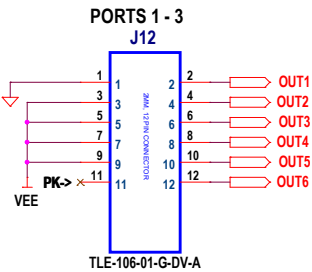
CUSTOMER NOTICE		APPROVALS		 ANALOG DEVICES	 POWER BY LINEAR			
ANALOG DEVICES HAS MADE A BEST EFFORT TO DESIGN A CIRCUIT THAT MEETS CUSTOMER-SUPPLIED SPECIFICATIONS; HOWEVER, IT REMAINS THE CUSTOMER'S RESPONSIBILITY TO VERIFY PROPER AND RELIABLE OPERATION IN THE ACTUAL APPLICATION. COMPONENT SUBSTITUTION AND PRINTED CIRCUIT BOARD LAYOUT MAY SIGNIFICANTLY AFFECT CIRCUIT PERFORMANCE OR RELIABILITY. CONTACT ANALOG DEVICES APPLICATIONS ENGINEERING FOR ASSISTANCE.		PCB DES.	KENM					
		APP ENG.	ERIC.H					
		TITLE: SCHEMATIC						
		24-PORT IEEE 802.3bt PSE MOTHER BOARD						
THIS CIRCUIT IS PROPRIETARY TO ANALOG DEVICES AND SUPPLIED FOR USE WITH ANALOG DEVICES PARTS.				IC NO.	LTC3639EMSE#TRPBF	SCHEMATIC NO. AND REVISION: 710-DC3017A-A_REV03		
				SKU NO.	DC3017A			
						SIZE:	N/A	SHEET 2 OF 11
						DATE:		

REVISION HISTORY				
ECO	REV	DESCRIPTION	APPROVED	DATE
	3			



DIGITAL CONNECTIONS



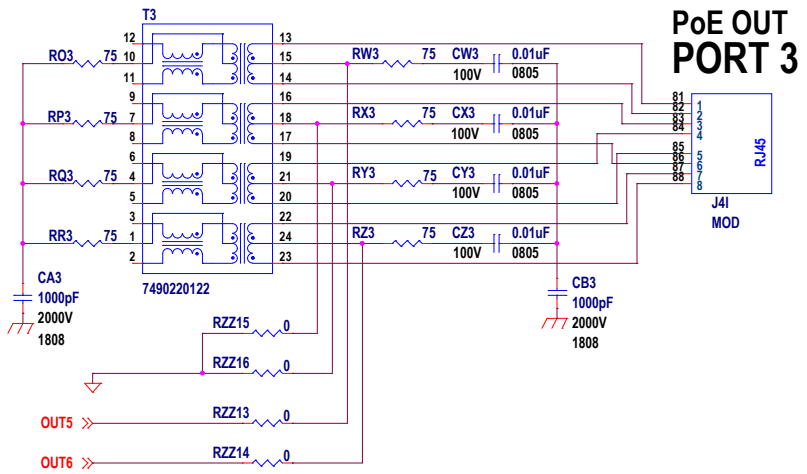
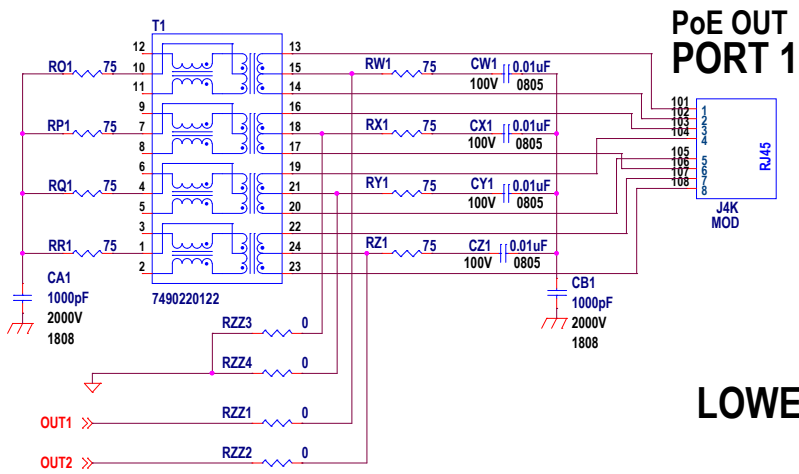
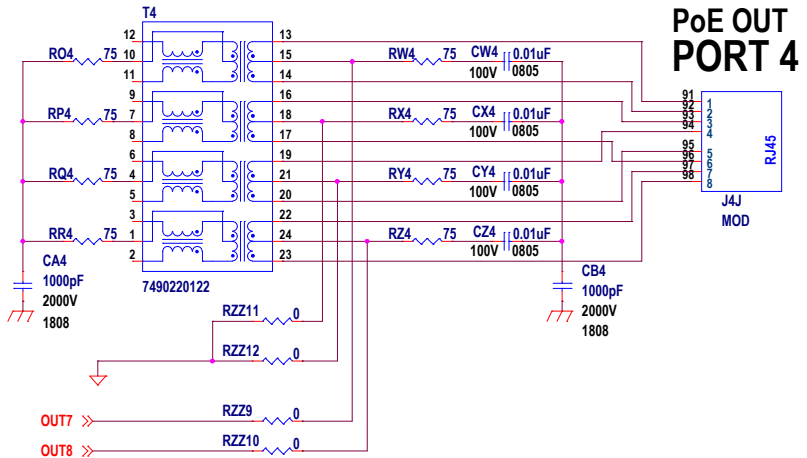
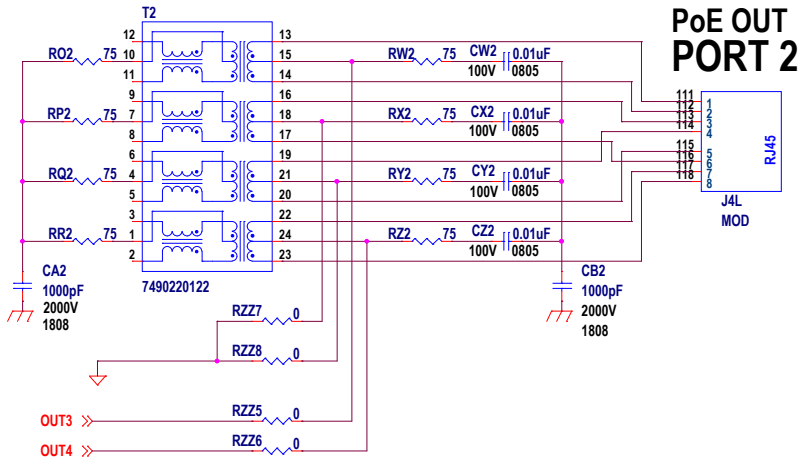
ANALOG CONNECTIONS



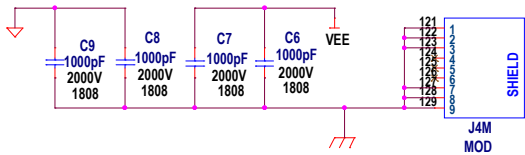
NOTE: UNLESS OTHERWISE SPECIFIED
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CUSTOMER NOTICE		APPROVALS		 ANALOG DEVICES		 POWER BY LINEAR	
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		APP ENG.	ERIC.H				
THIS CIRCUIT IS PROPRIETARY TO ANALOG DEVICES AND SUPPLIED FOR USE WITH ANALOG DEVICES PARTS.				IC NO. LTC3839EMSE#TRPBF		SCHEMATIC NO. AND REVISION:	
				SKU NO. DC3017A		710-DC3017A-A_REV03	
				SIZE: N/A		DATE:	
						SHEET 3 OF 11	


REVISION HISTORY				
ECO	REV	DESCRIPTION	APPROVED	DATE
	3			



LOWER ROW

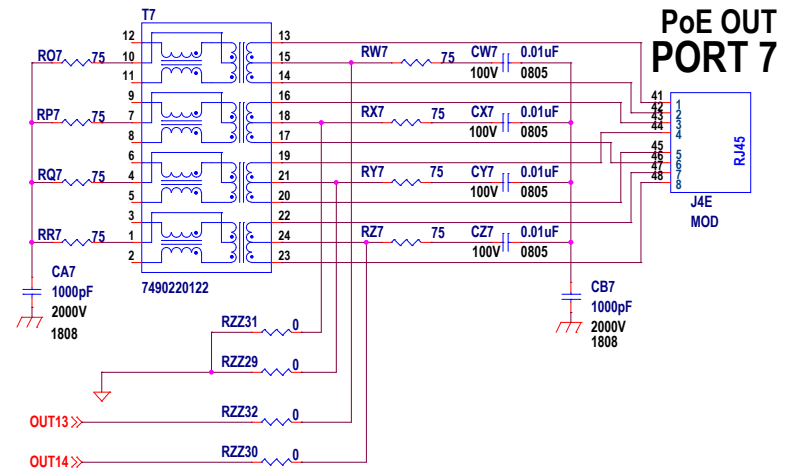
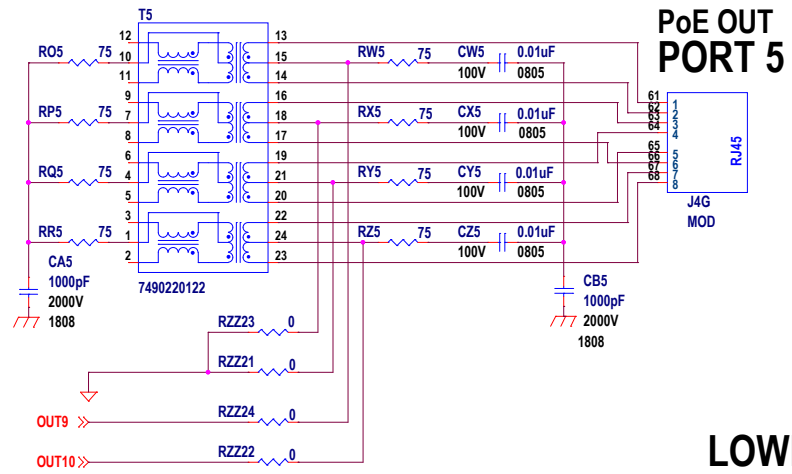
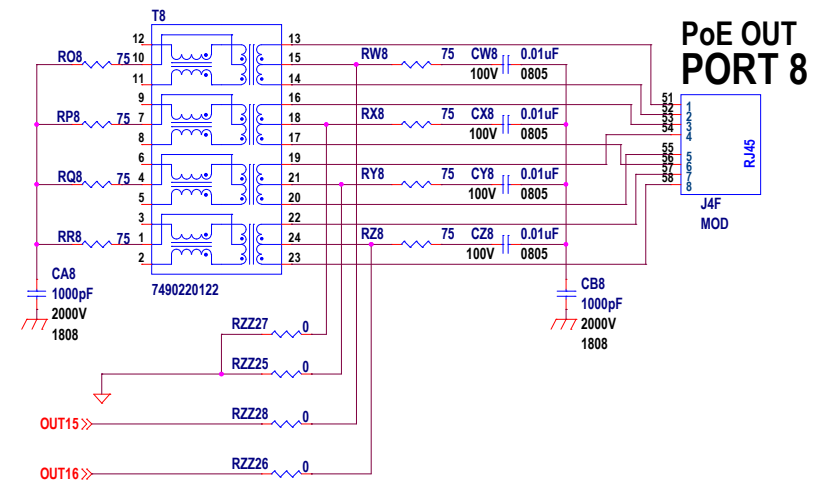
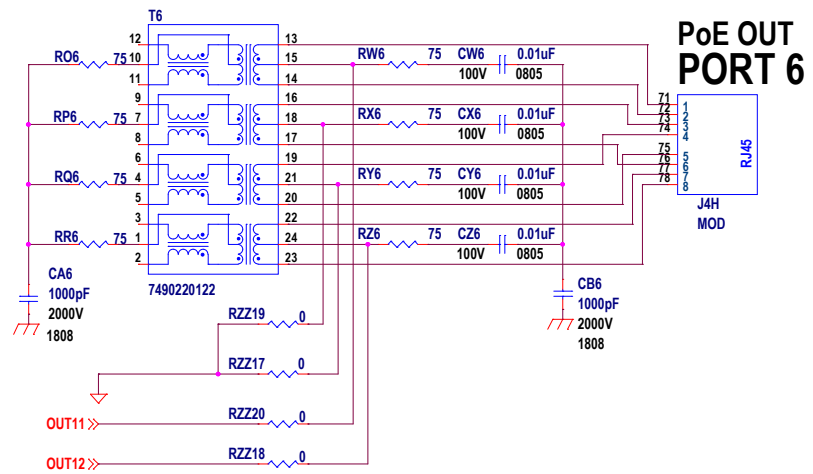


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CUSTOMER NOTICE		APPROVALS		ANALOG DEVICES		POWER BY LINEAR	
<small>ANALOG DEVICES HAS MADE A BEST EFFORT TO DESIGN A CIRCUIT THAT MEETS CUSTOMER-SUPPLIED SPECIFICATIONS; HOWEVER, IT REMAINS THE CUSTOMER'S RESPONSIBILITY TO VERIFY PROPER AND RELIABLE OPERATION IN THE ACTUAL APPLICATION. COMPONENT SUBSTITUTION AND PRINTED CIRCUIT BOARD LAYOUT MAY SIGNIFICANTLY AFFECT CIRCUIT PERFORMANCE OR RELIABILITY. CONTACT ANALOG DEVICES APPLICATIONS ENGINEERING FOR ASSISTANCE.</small>		PCB DES.	KENLM	 www.analog.com		TITLE: SCHEMATIC 24-PORT IEEE 802.3bt PSE MOTHER BOARD	
		APP ENG.	ERIC.H				
<small>THIS CIRCUIT IS PROPRIETARY TO ANALOG DEVICES AND SUPPLIED FOR USE WITH ANALOG DEVICES PARTS.</small>				IC NO.	LTC3839EMSE#TRPBF	SCHEMATIC NO. AND REVISION: 710-DC3017A-A_REV03	
				SKU NO.	DC3017A		
		SIZE:	N/A	DATE:		SHEET 4 OF 11	

UPPER ROW



REVISION HISTORY				
ECO	REV	DESCRIPTION	APPROVED	DATE
	3			



LOWER ROW

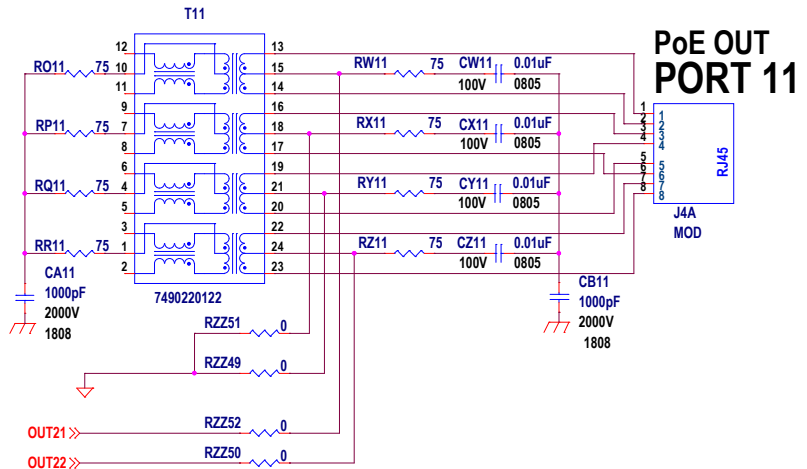
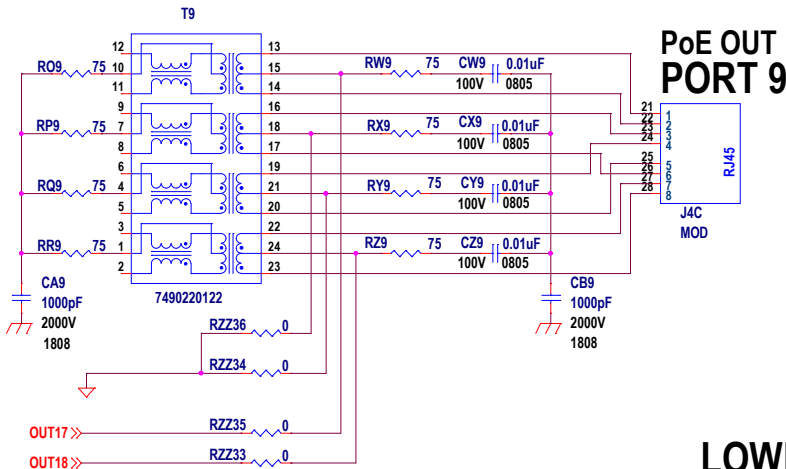
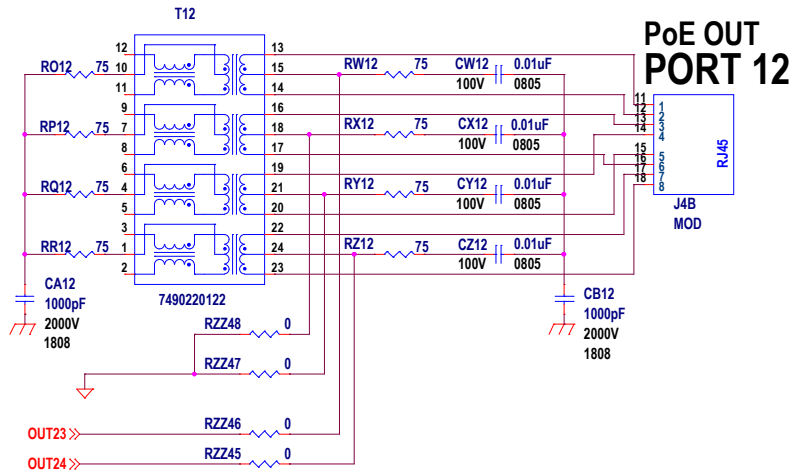
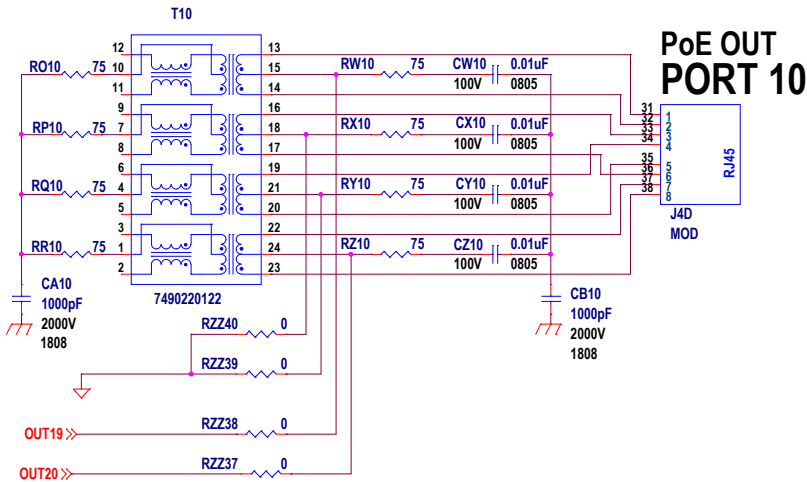
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CUSTOMER NOTICE ANALOG DEVICES HAS MADE A BEST EFFORT TO DESIGN A CIRCUIT THAT MEETS CUSTOMER-SUPPLIED SPECIFICATIONS; HOWEVER, IT REMAINS THE CUSTOMER'S RESPONSIBILITY TO VERIFY PROPER AND RELIABLE OPERATION IN THE ACTUAL APPLICATION. COMPONENT SUBSTITUTION AND PRINTED CIRCUIT BOARD LAYOUT MAY SIGNIFICANTLY AFFECT CIRCUIT PERFORMANCE OR RELIABILITY. CONTACT ANALOG DEVICES APPLICATIONS ENGINEERING FOR ASSISTANCE. THIS CIRCUIT IS PROPRIETARY TO ANALOG DEVICES AND SUPPLIED FOR USE WITH ANALOG DEVICES PARTS.	APPROVALS		 www.analog.com  Phone: (408)432-1900
	PCB DES.	KENLM	
	APP ENG.	ERIC.H	
TITLE: SCHEMATIC 24-PORT IEEE 802.3bt PSE MOTHER BOARD			
IC NO. LTC3839EMSE#TRPBF SKU NO. DC3017A		SCHEMATIC NO. AND REVISION: 710-DC3017A-A_REV03	
SIZE: N/A		DATE:	

UPPER ROW



REVISION HISTORY				
ECO	REV	DESCRIPTION	APPROVED	DATE
	3			



LOWER ROW

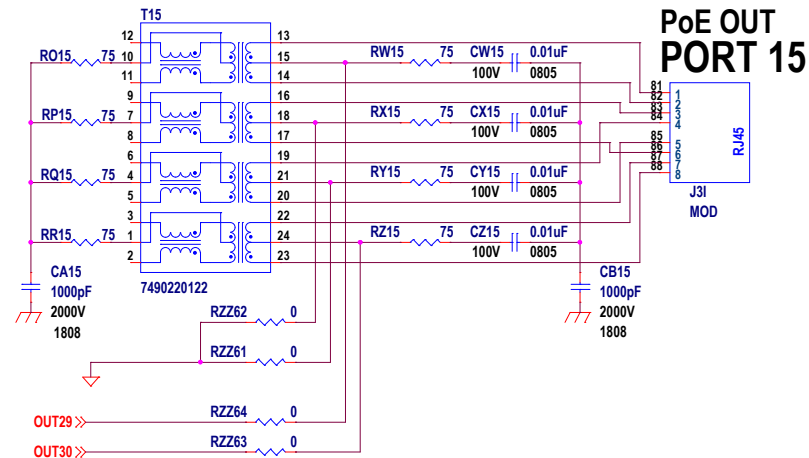
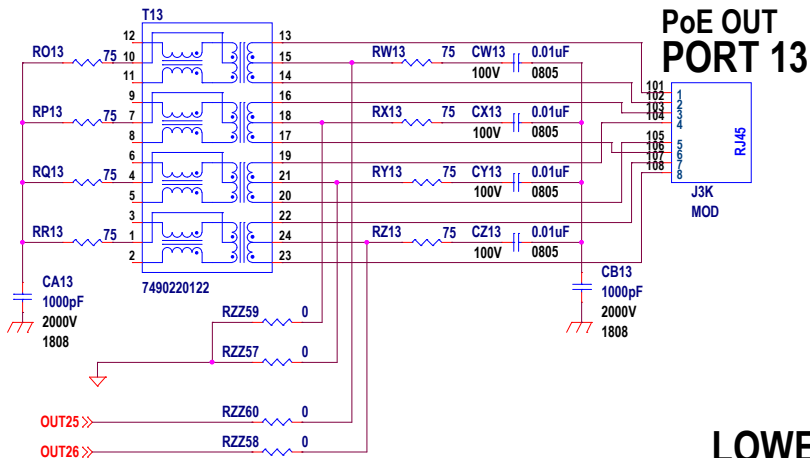
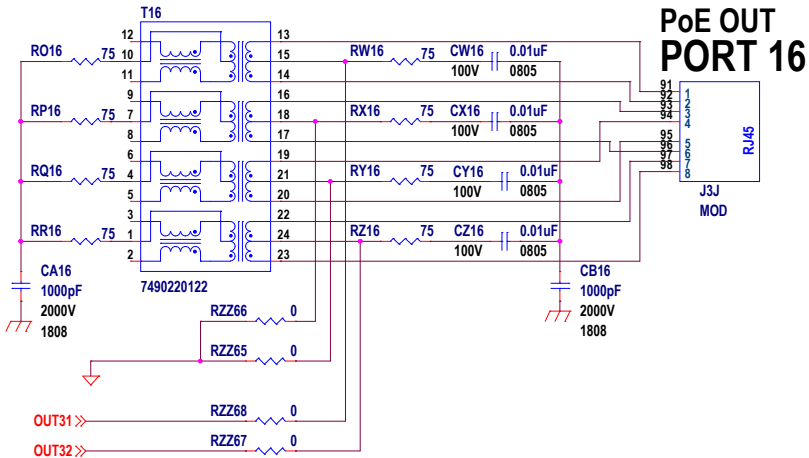
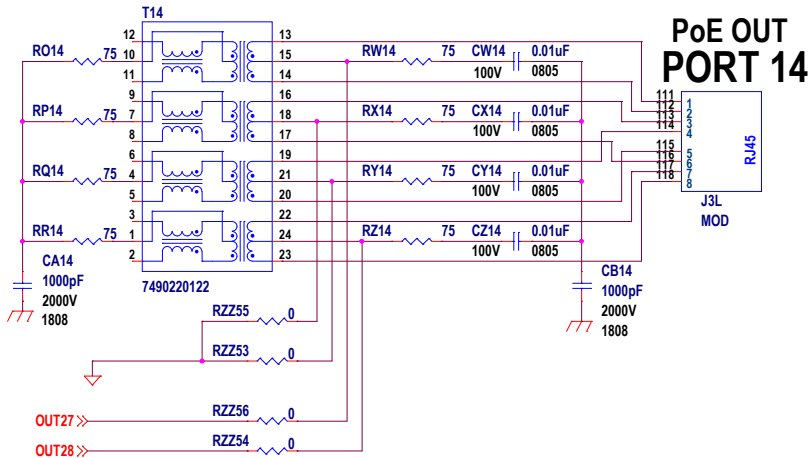
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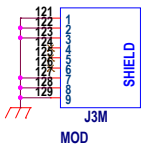
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	PCB DES.	KEM/M		
	APP ENG.	ERIC.H		
THIS CIRCUIT IS PROPRIETARY TO ANALOG DEVICES AND SUPPLIED FOR USE WITH ANALOG DEVICES PARTS.	TITLE: SCHEMATIC			24-PORT IEEE 802.3bt PSE MOTHER BOARD
	IC NO. LTC3839EMSE#TRPBF		SCHEMATIC NO. AND REVISION: 710-DC3017A-A_REV03	
	SKU NO. DC3017A			
	SIZE: N/A	DATE:	SHEET 6 OF 11	

UPPER ROW

REVISION HISTORY				
ECO	REV	DESCRIPTION	APPROVED	DATE
	3			





LOWER ROW



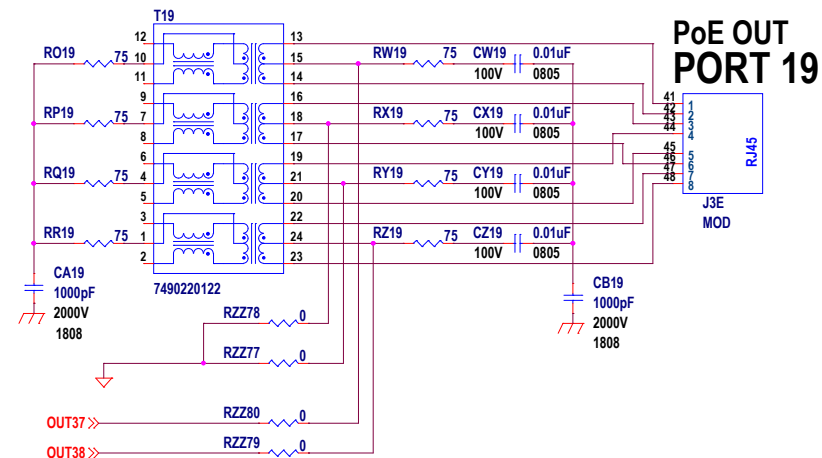
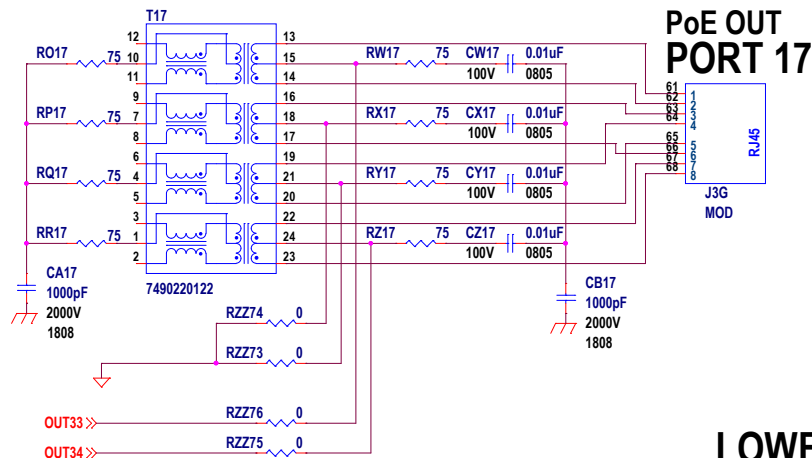
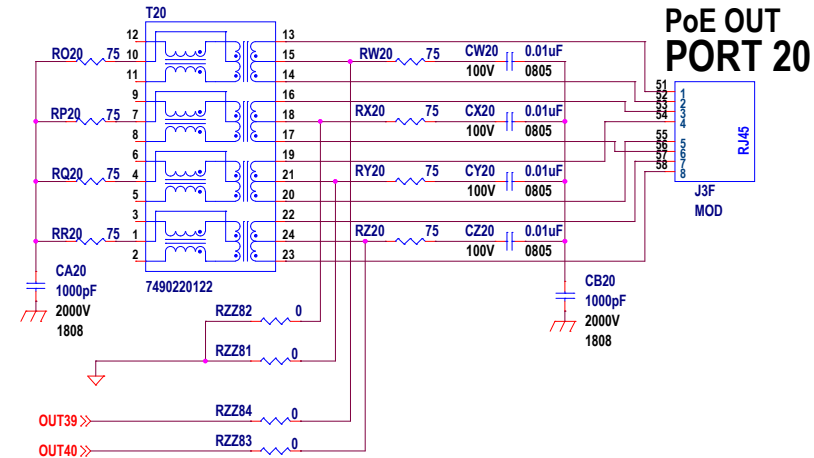
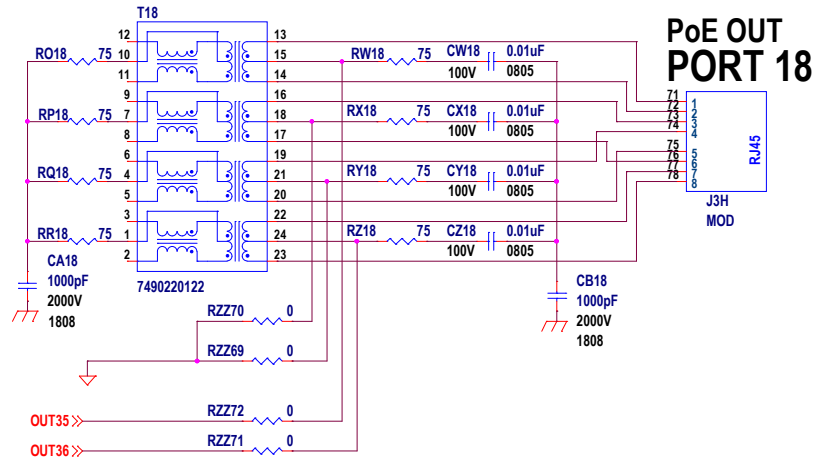
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CUSTOMER NOTICE		APPROVALS		 ANALOG DEVICES		 POWER BY LINEAR	
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		APP ENG.	ERIC.H				
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				24-PORT IEEE 802.3bt PSE MOTHER BOARD			
				IC NO. LTC3839EMSE#TRPBF		SCHEMATIC NO. AND REVISION:	
				SKU NO. DC3017A		710-DC3017A-A_REV03	
				SIZE: N/A		DATE:	
						SHEET 7 OF 11	

UPPER ROW



REVISION HISTORY				
ECO	REV	DESCRIPTION	APPROVED	DATE
	3			



LOWER ROW

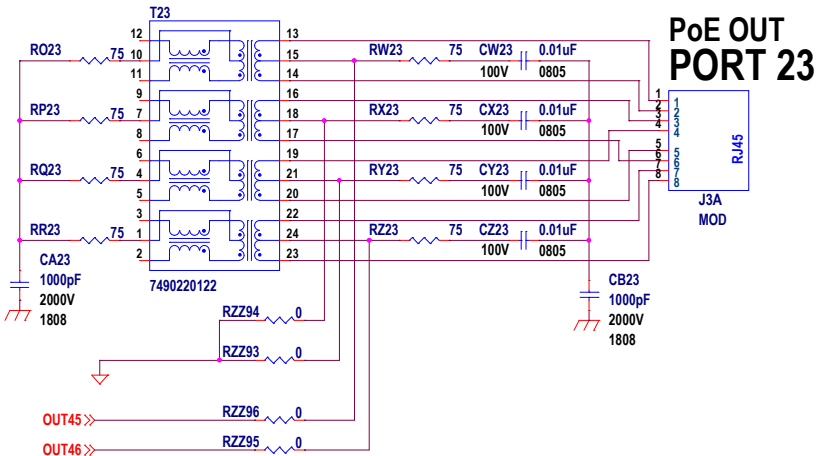
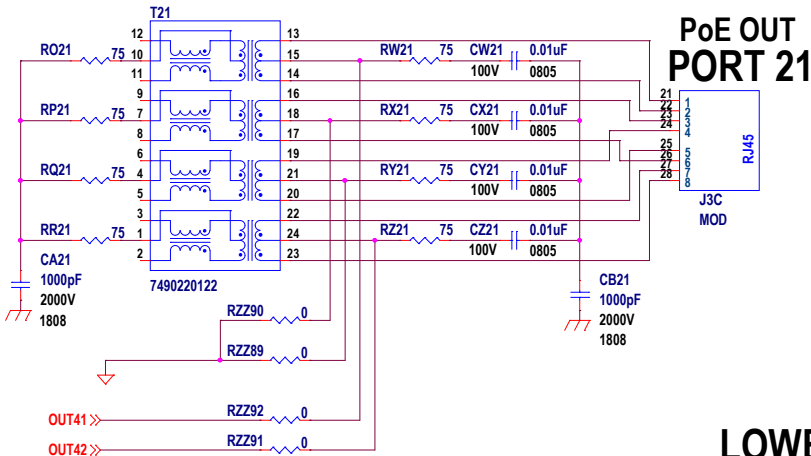
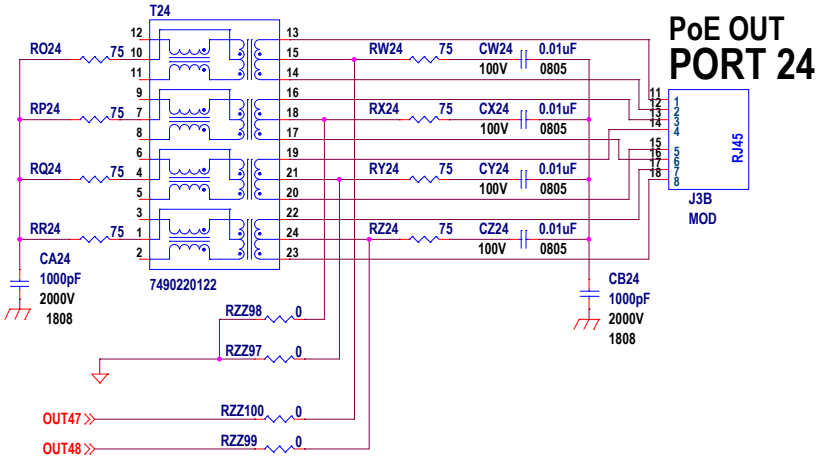
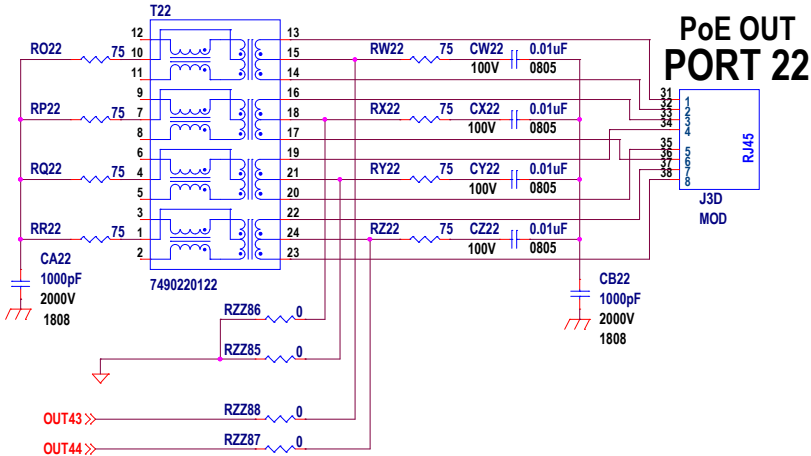
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		APP ENG.	ERIC.H				
THIS CIRCUIT IS PROPRIETARY TO ANALOG DEVICES AND SUPPLIED FOR USE WITH ANALOG DEVICES PARTS.		TITLE: SCHEMATIC		24-PORT IEEE 802.3bt PSE MOTHER BOARD			
		IC NO. LTC3839EMSE#TRPBF		SCHEMATIC NO. AND REVISION:			
		SKU NO. DC3017A		710-DC3017A-A_REV03			
		SIZE: N/A		DATE:		SHEET 8 OF 11	

UPPER ROW



REVISION HISTORY				
ECO	REV	DESCRIPTION	APPROVED	DATE
	3			



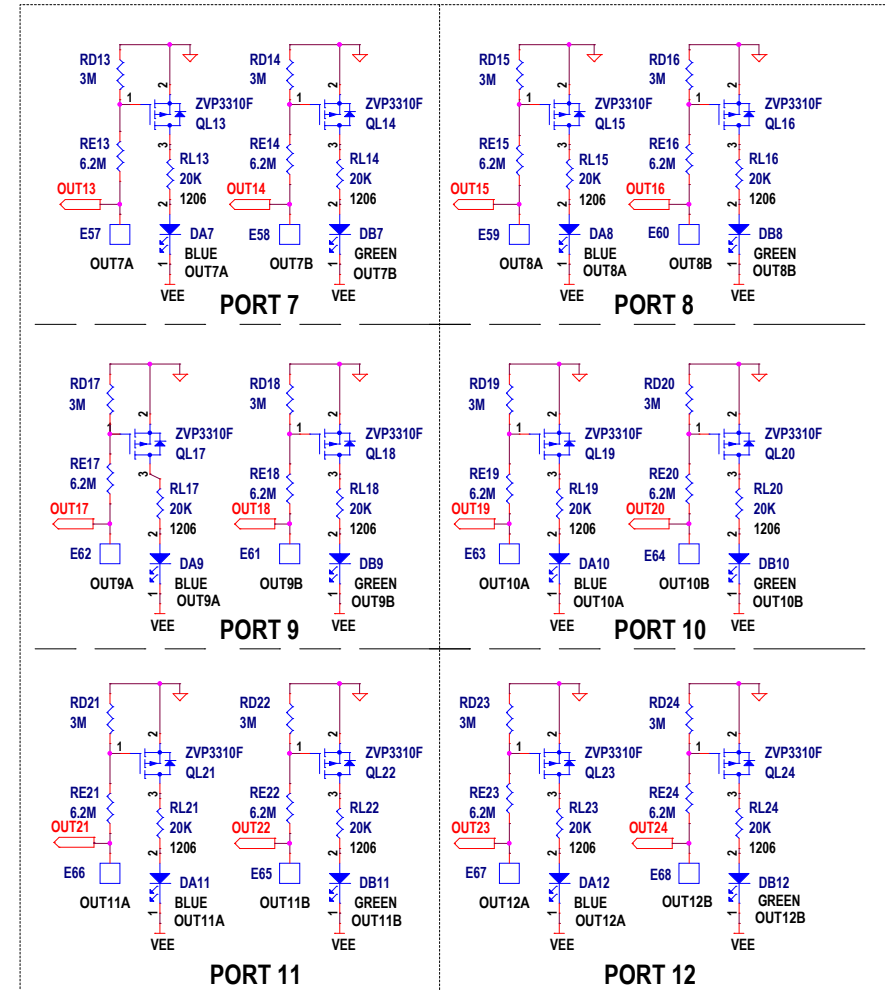
LOWER ROW

NOTE: UNLESS OTHERWISE SPECIFIED



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CUSTOMER NOTICE		APPROVALS		 ANALOG DEVICES		 POWER BY LINEAR	
ANALOG DEVICES HAS MADE A BEST EFFORT TO DESIGN A CIRCUIT THAT MEETS CUSTOMER-SUPPLIED SPECIFICATIONS; HOWEVER, IT REMAINS THE CUSTOMER'S RESPONSIBILITY TO VERIFY PROPER AND RELIABLE OPERATION IN THE ACTUAL APPLICATION. COMPONENT SUBSTITUTION AND PRINTED CIRCUIT BOARD LAYOUT MAY SIGNIFICANTLY AFFECT CIRCUIT PERFORMANCE OR RELIABILITY. CONTACT ANALOG DEVICES APPLICATIONS ENGINEERING FOR ASSISTANCE.		PCB DES.	KENLM	www.analog.com		Phone: (408)432-1900	
		APP ENG.	ERIC.H				
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				24-PORT IEEE 802.3bt PSE MOTHER BOARD			
				IC NO. LTC3839EMSE#TRPBF		SCHEMATIC NO. AND REVISION:	
				SKU NO. DC3017A		710-DC3017A-A_REV03	
				SIZE: N/A		DATE:	
						SHEET 9 OF 11	

OPTIONAL PORT LED DRIVERS - PORTS 7 - 12



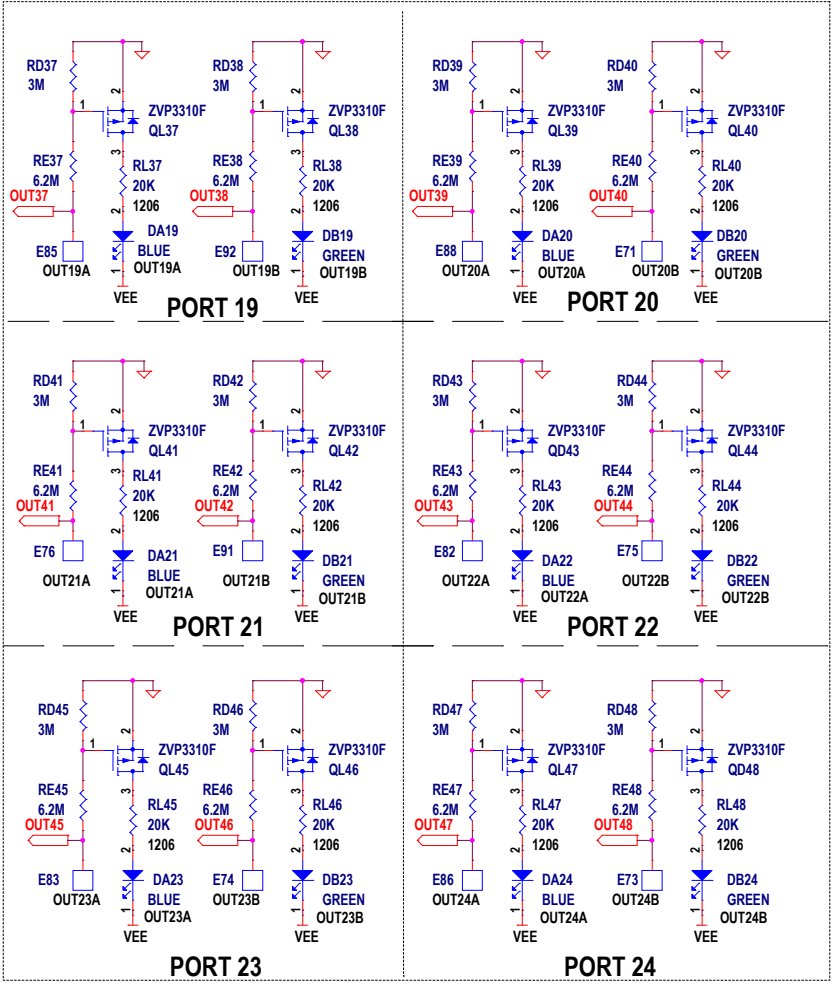
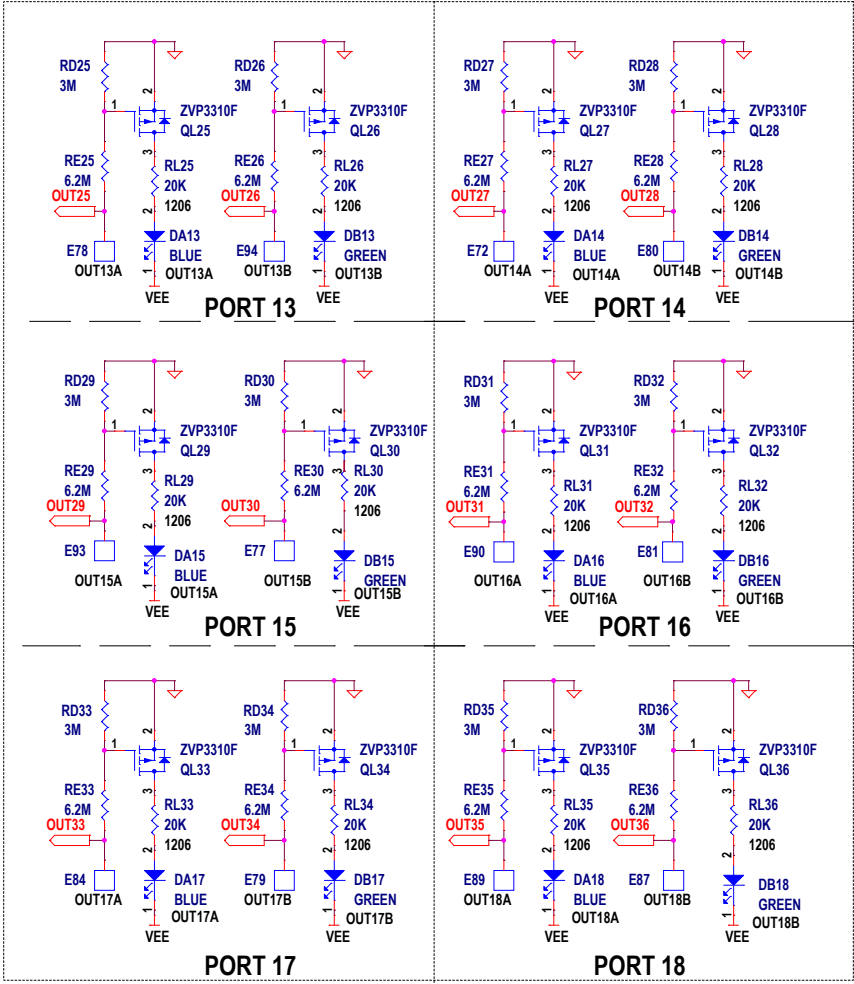
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<div>CUSTOMER NOTICE</div> <div>ANALOG DEVICES HAS MADE A BEST EFFORT TO DESIGN A CIRCUIT THAT MEETS CUSTOMER-SUPPLIED SPECIFICATIONS; HOWEVER, IT REMAINS THE CUSTOMER'S RESPONSIBILITY TO VERIFY PROPER AND RELIABLE OPERATION IN THE ACTUAL APPLICATION. COMPONENT SUBSTITUTION AND PRINTED CIRCUIT BOARD LAYOUT MAY SIGNIFICANTLY AFFECT CIRCUIT PERFORMANCE OR RELIABILITY. CONTACT ANALOG DEVICES APPLICATIONS ENGINEERING FOR ASSISTANCE.</div> <div>THIS CIRCUIT IS PROPRIETARY TO ANALOG DEVICES PARTS AND SUPPLIED FOR USE WITH ANALOG DEVICES PARTS.</div>		<div>APPROVALS</div> <table><tr><td>PCB DES.</td><td>KEUIM</td></tr><tr><td>APP ENG.</td><td>ERLCH</td></tr><tr><td colspan="2">TITLE: SCHEMATIC</td></tr><tr><td colspan="2">24-PORT IEEE 802.3bt PSE MOTHER BOARD</td></tr><tr><td>IC NO.</td><td>LTC3639EMSEFTRPBF</td></tr><tr><td>SKU NO.</td><td>DC3017A</td></tr><tr><td>SIZE:</td><td>N/A</td></tr><tr><td>DATE:</td><td></td></tr></table>		PCB DES.	KEUIM	APP ENG.	ERLCH	TITLE: SCHEMATIC		24-PORT IEEE 802.3bt PSE MOTHER BOARD		IC NO.	LTC3639EMSEFTRPBF	SKU NO.	DC3017A	SIZE:	N/A	DATE:		<div><div>ANALOG DEVICES</div><div>POWER BY LINEAR</div></div> <div>www.analog.com</div> <div>Phone: (408) 432-1900</div> <div>SCHEMATIC NO. AND REVISION: 710-DC3017A-A_REV03</div> <div>SHEET 10 OF 11</div>	
PCB DES.	KEUIM																				
APP ENG.	ERLCH																				
TITLE: SCHEMATIC																					
24-PORT IEEE 802.3bt PSE MOTHER BOARD																					
IC NO.	LTC3639EMSEFTRPBF																				
SKU NO.	DC3017A																				
SIZE:	N/A																				
DATE:																					



REVISION HISTORY				
ECO	REV	DESCRIPTION	APPROVED	DATE
	3			

OPTIONAL PORT LED DRIVERS - PORTS 13 -18

OPTIONAL PORT LED DRIVERS - PORTS 19 -24



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CUSTOMER NOTICE		APPROVALS		 ANALOG DEVICES		 POWER BY LINEAR	
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		APP ENG.	ERIC.H				
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				24-PORT IEEE 802.3bt PSE MOTHER BOARD			
				IC NO. LTC3839EMSE#TRPBF		SCHEMATIC NO. AND REVISION:	
				SKU NO. DC3017A		710-DC3017A-A_REV03	
				SIZE: N/A		DATE:	
						SHEET 11 OF 11	

HARDWARE

PCA ADDITIONAL PARTS

MP1	STANDOFF,NYLON,SNAP-ON,0.75" (19.1mm)
MP2	STANDOFF,NYLON,SNAP-ON,0.75" (19.1mm)
MP3	STANDOFF,NYLON,SNAP-ON,0.75" (19.1mm)
MP4	STANDOFF,NYLON,SNAP-ON,0.75" (19.1mm)
MP5	STANDOFF,NYLON,SNAP-ON,0.75" (19.1mm)
MP6	STANDOFF,NYLON,SNAP-ON,0.75" (19.1mm)
MP7	STANDOFF,NYLON,SNAP-ON,0.75" (19.1mm)
MP8	STANDOFF,NYLON,SNAP-ON,0.75" (19.1mm)
MP9	STANDOFF,NYLON,SNAP-ON,0.75" (19.1mm)
LB1	BOARD S/N LABEL 895-0154
PCB1	PCB, DC3017A-A REV03 (MAO BANG)
PK1	CONN.,POLARIZING KEY,PLUG,2.54mm PITCH,3.18mm DIM,ST,NATURAL THERMOPLASTIC
PK2	CONN.,POLARIZING KEY,PLUG,2.54mm PITCH,3.18mm DIM,ST,NATURAL THERMOPLASTIC
PK3	CONN.,POLARIZING KEY,PLUG,2.54mm PITCH,3.18mm DIM,ST,NATURAL THERMOPLASTIC

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CUSTOMER NOTICE
ANALOG DEVICES HAS MADE A BEST EFFORT TO DESIGN A CIRCUIT THAT MEETS CUSTOMER-SUPPLIED SPECIFICATIONS; HOWEVER, IT REMAINS THE CUSTOMER'S RESPONSIBILITY TO VERIFY PROPER AND RELIABLE OPERATION IN THE ACTUAL APPLICATION. COMPONENT SUBSTITUTION AND PRINTED CIRCUIT BOARD LAYOUT MAY SIGNIFICANTLY AFFECT CIRCUIT PERFORMANCE OR RELIABILITY. CONTACT ANALOG DEVICES APPLICATIONS ENGINEERING FOR ASSISTANCE.

THIS CIRCUIT IS PROPRIETARY TO ANALOG DEVICES AND SUPPLIED FOR USE WITH ANALOG DEVICES PARTS.

APPROVALS

PCB DES.	KEN.M
APP ENG.	ERIC.H

**ANALOG DEVICES**
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Phone: (408)432-1900

TITLE: SCHEMATIC

24-PORT IEEE 802.3bt PSE MOTHER BOARD

IC NO. LTC3639EMSE#TRPBF
SKU NO. DC3017A

SCHEMATIC NO. AND REVISION:
710-DC3017A-A_REV03

SIZE: N/A

DATE:

SHEET 12 OF 0